

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well and not later than 60 days after completion of closure. When submitted as a completion report, this shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, items 11, 12 and 26-31 shall be reported for each zone.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

| Southeastern New Mexico | | Northwestern New Mexico | |
|---------------------------|------------------|-------------------------|------------------|
| T. Anhy <i>1163</i> 3420' | T. Canyon | T. Ojo Alamo | T. Penn A" |
| T. Salt | T. Strawn | T. Kirtland | T. Penn. "B" |
| B. Salt | T. Atoka | T. Fruitland | T. Penn. "C" |
| T. Yates 2746' | T. Miss | T. Pictured Cliffs | T. Penn. "D" |
| T. 7 Rivers 2934' | T. Devonian | T. Cliff House | T. Leadville |
| T. Queen 3424' | T. Silurian | T. Menefee | T. Madison |
| T. Grayburg 3640' | T. Montoya | T. Point Lookout | T. Elbert |
| T. San Andres 3876' | T. Simpson | T. Mancos | T. McCracken |
| T. Glorieta 5270' | T. McKee | T. Gallup | T. Ignacio Otzte |
| T. Paddock | T. Ellenburger | Base Greenhorn | T. Granite |
| T. Blinbry 5630' | T. Gr. Wash | T. Dakota | |
| T. Tubb 6248' | T. Delaware Sand | T. Morrison | |
| T. Drinkard 6346' | T. Bone Springs | T. Todilto | |
| T. Abo 6744' | T. | T. Entrada | |
| T. Wolfcamp | T. | T. Wingate | |
| T. Penn | T. | T. Chinle | |
| T. Cisco (Bough C) | T. | T. Permian | |

OIL OR GAS SANDS OR ZONES

No. 1, from.....to.....

No. 3, from.....to.....

No. 2, from.....to.....

No. 4, from.....to.....

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from.....to.....feet.....

No. 2, from.....to.....feet.....

No. 3, from.....to.....feet.....

LITHOLOGY RECORD (Attach additional sheet if necessary)

| From | To | Thickness In Feet | Lithology |
|------|----|----------------------|-----------|
| | | | |

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

HOBBS OCD

Form W-12
(1-1-71)
FOD1296

AUG 14 2013

| INCLINATION REPORT (One Copy Must Be Filed With Each Completion Report) | | RECEIVED |
|--|----------------|--|
| 1. FIELD NAME (as per RRC Records or Wildcat) | 2. LEASE NAME | 6. RRC District |
| Drinkard / Waitz; Abo | Encore M State | 7. RRC Lease Number. (Oil completions only) |
| 3. OPERATOR | | 8. Well Number |
| Quantum Resources Management, LLC | | 008 |
| 4. ADDRESS | | 9. RRC Identification Number (Gas completions only) |
| 1401 McKinney St., Suite 2400, Houston, TX 77010 | | 10. County |
| 5. LOCATION (Section, Block, and Survey) | | Lea Co., NM |
| Sec. 19, T-22-S, R-37-E | | |

RECORD OF INCLINATION

| *11. Measured Depth (feet) | 12. Course Length (Hundreds of feet) | *13. Angle of Inclination (Degrees) | 14. Displacement per Hundred Feet (Sine of Angle x 100) | 15. Course Displacement (feet) | 16. Accumulative Displacement (feet) |
|-------------------------------|---|---|---|-----------------------------------|---|
| 235 | | 1 | | | |
| 720 | | .75 | | | |
| 1210 | | .5 | | | |
| 1617 | | .25 | | | |
| 2120 | | 1 | | | |
| 2630 | | 2 | | | |
| 2720 | | 2.25 | | | |
| 2800 | | 2.25 | | | |
| 2970 | | 2 | | | |
| 3127 | | 1.25 | | | |
| 3470 | | 1 | | | |
| 4128 | | 1.25 | | | |
| 4314 | | 1 | | | |
| 4898 | | 1 | | | |
| 5316 | | 1 | | | |

If additional space is needed, use the reverse side of this form.

17. Is any information shown on the reverse side of this form? ☒ yes ☐ no
18. Accumulative total displacement of well bore at total depth of 6940 feet = _____ feet.
- *19. Inclination measurements were made in - ☐ Tubing ☐ Casing ☐ Open hole ☒ Drill Pipe
20. Distance from surface location of well to the nearest lease line _____ feet.
21. Minimum distance to lease line as prescribed by field rules _____ feet.
22. Was the subject well at any time intentionally deviated from the vertical in any manner whatsoever? No

(If the answer to the above question is "yes," attach written explanation of the circumstances.)

| INCLINATION DATA CERTIFICATION | OPERATOR CERTIFICATION |
|--|--|
| <p>I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have personal knowledge of the inclination data and facts placed on both sides of this form and that such data and facts are true, correct, and complete to the best of my knowledge. This certification covers all data as indicated by asterisks (*) by the item numbers on this form.</p> <p><u>Danny Crow</u> Signature of Authorized Representative <u>Danny Crow V.P. of Operations</u> Name of Person and Title (type or print) <u>Felderhoff Drilling</u> Name of Company Telephone: <u>940-668-8344</u> Area Code</p> | <p>I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have personal knowledge of all information presented in this report, and that all data presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers all data and information presented herein except inclination data as indicated by asterisks (*) by the item numbers on this form.</p> <p><u>Celeste G. Dale</u> Signature of Authorized Representative <u>Celeste G. Dale, Sr. Regulatory Analyst</u> Name of Person and Title (type or print) <u>Quantum Resources Management, LLC</u> Operator Telephone: <u>432-683-1500</u> Area Code</p> |

Railroad Commission Use Only:

Approved By:

Title:

Date:

* Designates items certified by company that conducted the inclination surveys.

OCT 22 2013

OCT 22 2013

RECORD OF INCLINATION (Continued from reverse side)

[illegible]

If additional space is needed, attach separate sheet and check here. ☐

REMARKS:

- INSTRUCTIONS -

An inclination survey made by persons or concerns approved by the Commission shall be filed on a form prescribed by the Commission for each well drilled or deepened with rotary tools or when, as a result of any operation, the course of the well is changed. No inclination survey is required on wells that are drilled and completed as dry holes that are plugged and abandoned. (Inclination surveys are required on re-entry of abandoned wells.) Inclination surveys must be made in accordance with the provisions of Statewide Rule 11.

This report shall be filed in the District Office of the Commission for the district in which the well is drilled, by attaching one copy to each appropriate completion for the well. (except Plugging Report)

The Commission may require the submittal of the original charts, graphs, or discs, resulting from the surveys.

Cementer: Fill in shaded areas
Operator: Fill in other items

Form W-15
Cementing Report
Rev. 4/1/83
HLBRTN1096

RAILROAD COMMISSION OF TEXAS

Oil and Gas Division

| | | | |
|--|---------------------|--------------------------|------------------------|
| 1. Operator's Name (As Shown on Form P-5, Organization Report) | 2. RRC Operator No. | 3. RRC District No. | 4. County of Well Site |
| QUANTUM RESOURCES Management, LLC | | | LEA |
| 5. Field Name (Wildcat or Exactly as Shown on RRC Records) | 6. API No. | 7. Drilling Permit No. | |
| Drinkard/Wantz, Abo | 42-025-40721 | | |
| 8. Lease Name | 9. Rule 37 Case No. | 10. Oil Lease/Gas ID No. | 11. Well Number |
| ENCORE M-STATE | | | #8 |

| CASING CEMENTING DATA: | | SURFACE CASING | INTERMEDIATE CASING | PRODUCTION CASING | | MULTI-STAGE CEMENTING PROCESS | |
|---|--------------------------------------|----------------|---------------------|-------------------|---------------------------|-------------------------------|------|
| | | | | SINGLE STRING | MULTIPLE PARALLEL STRINGS | TOOL | SHOE |
| 12. Cementing Date | | 6/9/2013 | | | | | |
| 13. *Drilled Hole Size | | 17 1/2 | | | | | |
| *Ext. % Wash or Hole Enlargement | | | | | | | |
| 14. Size of Casing (in. O.D.) | | 13 3/8 | | | | | |
| 15. Top of Liner (ft) | | | | | | | |
| 16. Setting Depth (ft) | | 1200 | | | | | |
| 17. Number of Centralizers Used | | 11 | | | | | |
| 18. Hrs. Waiting on Cement Before Drill-Out | | 28 | | | | | |
| 1st Slurry | 19. API Cement Used: No. of Sacks > | 660SKS | | | | | |
| | Class > | CLASS C | | | | | |
| | Additives > | SEE RMKS | | | | | |
| 2nd Slurry | No. of Sacks > | 250SKS | | | | | |
| | Class > | CLASS C | | | | | |
| | Additives > | SEE RMKS | | | | | |
| 3rd Slurry | No. of Sacks > | | | | | | |
| | Class > | | | | | | |
| | Additives > | | | | | | |
| 1st | 20. Slurry Pumped: Volume (cu.ft.) > | 1254 | | | | | |
| | Height (ft) > | 1802 | | | | | |
| 2nd | Volume (cu.ft.) > | 412 | | | | | |
| | Height (ft) > | 525 | | | | | |
| 3rd | Volume (cu.ft.) > | | | | | | |
| | Height (ft) > | | | | | | |
| | Volume (cu.ft.) > | 1666 | | | | | |
| | Height (ft) > | 2327 | | | | | |
| 21. Was Cement Circulated to Ground Surface (or Bottom of Casing) Outside Casing? | | YES | | | | | |
| 22. Remarks | | | | | | | |
| CIRCULATED 70BBLs 207SKS BACK TO SURFACE | | | | | | | |
| LEAD CMT. 660SKS OF TRANS TEX LITE "C" WITH 2% CACL, 3# GILSONITE, AND 1/4# CELLOFLAKE AT 13PPG | | | | | | | |
| TAIL CMT. 250SKS OF TRANS TEX LITE "C" WITH 2% CACL, 3# GILSONITE, AND 1/4# CELLOFLAKE AT 13.8PPG | | | | | | | |

OVER →

| CEMENTING TO PLUG AND ABANDON | PLUG #1 | PLUG #2 | PLUG #3 | PLUG #4 | PLUG #5 | PLUG #6 | PLUG #7 | PLUG #8 |
|--|---------|---------|---------|---------|---------|---------|---------|---------|
| 23. Cementing Date | | | | | | | | |
| 24. Size of Hole or Pipe Plugged (in) | | | | | | | | |
| 25. Depth to Bottom of Tubing or Drill Pipe (ft) | | | | | | | | |
| 26. Sacks of Cement Used (each plug) | | | | | | | | |
| 27. Slurry Volume Pumped (cu ft.) | | | | | | | | |
| 28. Calculated Top of Plug (ft) | | | | | | | | |
| 29. Measured Top of Plug, If Tagged (ft) | | | | | | | | |
| 30. Slurry Wt. (lbs/gal) | | | | | | | | |
| 31. Type Cement | | | | | | | | |

CEMENTERS CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers cementing data only.

OMAR A. RAMOS
Name and Title of Cementer's Representative

TRANS-TEX CEMENTING SERVICES, LLC
Cementing Company

[Signature]
Signature

5019 BASIN ST Midland, Texas 79703
Address City State Zip Code

432-694-4900
Tel: Area Code Number

6/9/2013
Date: Mo Day Yr.

OPERATOR'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers all well data.

Celeste G. Dale
Typed or Printed Name of Operators Representative

Sr. Regulatory Analyst
Title

[Signature]
Signature

4000 N. Big Spring St., Suite 305 Midland, TX 79705
Address City State Zip Code

432-683-1500
Tel: Area Code Number

07/18/13
Date: Mo Day Yr.

Instruction to Form W-15, Cementing Report

IMPORTANT: Operators and cementing companies must comply with the requirements of the Commission's Statewide rules 8 (Water Protection), 13 (Casing, Cementing, Drilling, and Completion, and 14 (Well Plugging). For offshore operations, see the requirements of Rule 13 (c).

A. What to file. An operator should file an original and one copy of the completed Form W-15 for each cementing company used on a well. The cementing of different casing strings on a well by one cementing company may be reported on one form. Form W-15 should be filed with the following:

- * An initial oil or gas completion report, Form W-2 or G-1, as required by Statewide or special field rules;
- * Form W-4, Application for Multiple Completion, if the well is a multiple parallel casing completion; and
- * Form W-3, Plugging Record, unless the W-3 is signed by the cementing company representative. When reporting dry holes, operators must complete W-15, in addition to Form W-3, to show any casing cemented in the hole.

B. Where to file. The appropriate Commission District Office for the county in which the well is located.

C. Surface casing. An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Texas Department of Water Resources, Austin. Before drilling a well in any field or area in which no field rules are in effect or in which surface casing requirements are not specified in the applicable rules, an operator must obtain a letter from the Department of Water Resources stating the protection depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the Commission.

D. Centralizers. Surface casing must be centralized at the shoe, above and below a stage collar or diverting tool, if run, and through usable-quality water zones. In nondeviated holes, a centralizer must be placed every fourth joint from the cement shoe to the ground surface or to the bottom of the cellar. All centralizers must meet API specifications.

E. Exceptions and alternative casing programs. The District Director may grant an exception to the requirements of Statewide Rule 13. In a written applications, an operator must state the reason for the requested exception and outline an alternate program for casing and cementing through the protection depth for strata containing usable-quality water. The District Director may approve, modify, or reject a proposed program. An operator must obtain approval of any exception before beginning casing and cementing operations.

F. Intermediate and production casing. For specific technical requirements, operators should consult Statewide Rule 12 (b) (3) and (4).

G. Plugging and abandoning. Cement plugs must be placed in the wellbore as required by Statewide Rule 14. The District Director may require additional cement plugs. For onshore or inland wells, a 10-foot cement plug must be placed in the top of the well, and the casing must be cut off three feet below the ground surface. All cement plugs, except the top plug, must have sufficient slurry volume to fill 100 feet of hole, plus ten percent for each 1000 feet of depth from the ground surface to the bottom of the plug.

To plug and abandon a well, operators must use only cementers approved by the Director of Field Operations. Cementing companies, service companies, or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.

Cementer: Fill in shaded areas
Operator: Fill in other items

Form W-15
Cementing Report
Rev. 4/1/83
HLBRTN1096

RAILROAD COMMISSION OF TEXAS

Oil and Gas Division

| | | | |
|--|---------------------|--------------------------|------------------------|
| 1. Operator's Name (As Shown on Form P-5, Organization Report) | 2. RRC Operator No. | 3. RRC District No. | 4. County of Well Site |
| Quantum Resources Management, LLC | | | Lea, NM |
| 5. Field Name (Wildcat or Exactly as Shown on RRC Records) | 6. API No. | 7. Drilling Permit No. | |
| Drinkard/Wantz; Abo | 42- 30-025-40721 | | |
| 8. Lease Name | 9. Rule 37 Case No. | 10. Oil Lease/Gas ID No. | 11. Well Number |
| Encore "M" State | | | 008 |

| CASING CEMENTING DATA: | | SURFACE CASING | INTERMEDIATE CASING | PRODUCTION CASING | | MULTI-STAGE CEMENTING PROCESS | |
|--|--------------------------------------|----------------|---------------------|-------------------|---------------------------|-------------------------------|------|
| | | | | SINGLE STRING | MULTIPLE PARALLEL STRINGS | TOOL | SHOE |
| 12. Cementing Date | | | 6/13/2013 | | | | |
| 13. *Drilled Hole Size | | | 11 | | | | |
| *Ext. % Wash or Hole Enlargement | | | | | | | |
| 14. Size of Casing (in. O.D.) | | | 8 5/8 | | | | |
| 15. Top of Liner (ft) | | | | | | | |
| 16. Setting Depth (ft) | | | 4017 | | | | |
| 17. Number of Centralizers Used | | | 12 | | | | |
| 18. Hrs. Waiting on Cement Before Drill-Out | | | 24 | | | | |
| 1st Slurry | 19. API Cement Used: No. of Sacks > | | 575 | | | | |
| | Class > | | C | | | | |
| | Additives > | | see remarks | | | | |
| 2nd Slurry | No. of Sacks > | | 200 | | | | |
| | Class > | | C | | | | |
| | Additives > | | 1/4 # celloflake | | | | |
| 3rd Slurry | No. of Sacks > | | | | | | |
| | Class > | | | | | | |
| | Additives > | | | | | | |
| 1st | 20. Slurry Pumped: Volume (cu.ft.) > | | 1420 | | | | |
| | Height (ft) > | | 5586 | | | | |
| 2nd | Volume (cu.ft.) > | | 264 | | | | |
| | Height (ft) > | | 1038 | | | | |
| 3rd | Volume (cu.ft.) > | | | | | | |
| | Height (ft) > | | | | | | |
| | Volume (cu.ft.) > | | 1684 | | | | |
| | Height (ft) > | | 6624 | | | | |
| 21. Was Cement Circulated to Ground Surface (or Bottom of Cella) Outside Casing? | | | no | | | | |
| 22. Remarks | | | | | | | |
| Lead Cmt additives: 10%gel, 5% salt, 1/4# celloflake | | | | | | | |
| | | | | | | | |
| | | | | | | | |

OVER →

| CEMENTING TO PLUG AND ABANDON | PLUG #1 | PLUG #2 | PLUG #3 | PLUG #4 | PLUG #5 | PLUG #6 | PLUG #7 | PLUG #8 |
|--|---------|---------|---------|---------|---------|---------|---------|---------|
| 23. Cementing Date | | | | | | | | |
| 24. Size of Hole or Pipe Plugged (in) | | | | | | | | |
| 25. Depth to Bottom of Tubing or Drill Pipe (ft) | | | | | | | | |
| 26. Sacks of Cement Used (each plug) | | | | | | | | |
| 27. Slurry Volume Pumped (cu.ft.) | | | | | | | | |
| 28. Calculated Top of Plug (ft) | | | | | | | | |
| 29. Measured Top of Plug, If Tagged (ft) | | | | | | | | |
| 30. Slurry Wt. (lbs/gal) | | | | | | | | |
| 31. Type Cement | | | | | | | | |

CEMENTERS CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers cementing data only.

Michael Mayfield

Name and Title of Cementer's Representative

TRANS-TEX CEMENTING SERVICES, LLC

Cementing Company

Michael Mayfield
Signature

5019 BASIN ST

Address

Midland, Texas

City State

79703

Zip Code

432-694-4900

Tel: Area Code Number

06/13/13

Date: Mo. Day Yr.

OPERATOR'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers all well data.

Celeste G. Dale

Typed or Printed Name of Operators Representative

Sr. Regulatory Analyst

Title

Celeste G. Dale
Signature

4001 N. Big Spring St., Suite #305 Midland, TX 79705

Address

City State

Zip Code

432-683-1500

Tel: Area Code Number

07/18/13

Date: Mo. Day Yr.

Instruction to Form W-15, Cementing Report

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- * Form W-4, Application for Multiple Completion, if the well is a multiple parallel casing completion; and
- * Form W-3, Plugging Record, unless the W-3 is signed by the cementing company representative. When reporting dry holes, operators must complete W-15, in addition to Form W-3, to show any casing cemented in the hole.

B. Where to file. The appropriate Commission District Office for the county in which the well is located.

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E. Exceptions and alternative casing programs. The District Director may grant an exception to the requirements of Statewide Rule 13. In a written applications, an operator must state the reason for the requested exception and outline an alternate program for casing and cementing through the protection depth for strata containing usable-quality water. The District Director may approve, modify, or reject a proposed program. An operator must obtain approval of any exception before beginning casing and cementing operations.

F. Intermediate and production casing. For specific technical requirements, operators should consult Statewide Rule 12 (b) (3) and (4).

G. Plugging and abandoning. Cement plugs must be placed in the wellbore as required by Statewide Rule 14. The District Director may require additional cement plugs. For onshore or inland wells, a 10-foot cement plug must be placed in the top of the well, and the casing must be cut off three feet below the ground surface. All cement plugs, except the top plug, must have sufficient slurry volume to fill 100 feet of hole, plus ten percent for each 1000 feet of depth from the ground surface to the bottom of the plug.

To plug and abandon a well, operators must use only cementers approved by the Director of Field Operations. Cementing companies, service companies, or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.

Cementer: Fill in shaded areas
Operator: Fill in other items

Form W-15
Cementing Report
Rev. 4/1/83
HLBRTN1096

RAILROAD COMMISSION OF TEXAS

Oil and Gas Division

| | | | |
|--|---------------------|--------------------------|------------------------|
| 1. Operator's Name (As Shown on Form P-5, Organization Report) | 2. RRC Operator No. | 3. RRC District No. | 4. County of Well Site |
| Quantum Resources Management, LLC | | | Lea NM |
| 5. Field Name (Wildcat or Exactly as Shown on RRC Records) | 6. API No. | 7. Drilling Permit No. | |
| Drinkard/Wantz; Abo | 42-025-40721 | | |
| 8. Lease Name | 9. Rule 37 Case No. | 10. Oil Lease/Gas ID No. | 11. Well Number |
| Encore M State | | | #8 |

| CASING CEMENTING DATA: | | SURFACE CASING | INTERMEDIATE CASING | PRODUCTION CASING | | MULTI-STAGE CEMENTING PROCESS | |
|---|--------------------------------------|----------------|---------------------|-------------------------|---------------------------|-------------------------------|------|
| | | | | SINGLE STRING | MULTIPLE PARALLEL STRINGS | TOOL | SHOE |
| 12. Cementing Date | | | | 6/20/2013 | | | |
| 13. *Drilled Hole Size | | | | 7 7/8 | | | |
| *Ext. % Wash or Hole Enlargement | | | | | | | |
| 14. Size of Casing (in. O.D.) | | | | 5 1/2 | | | |
| 15. Top of Liner (ft) | | | | | | | |
| 16. Setting Depth (ft) | | | | 6936 6939 | | | |
| 17. Number of Centralizers Used | | | | 22 | | | |
| 18. Hrs. Waiting on Cement Before Drill-Out | | | | | | | |
| 1st Slurry | 19. API Cement Used: No. of Sacks > | | | 100 | | | |
| | Class > | | | "H" 50/50 Poz | | | |
| | Additives > | | | see remarks | | | |
| 2nd Slurry | No. of Sacks > | | | 625 | | | |
| | Class > | | | "H" 50/50 Poz | | | |
| | Additives > | | | see remarks | | | |
| 3rd Slurry | No. of Sacks > | | | | | | |
| | Class > | | | | | | |
| | Additives > | | | | | | |
| 1st | 20. Slurry Pumped: Volume (cu.ft.) > | | | 242 | | | |
| | Height (ft) > | | | 1397 | | | |
| 2nd | Volume (cu.ft.) > | | | 825 | | | |
| | Height (ft) > | | | 4761 | | | |
| 3rd | Volume (cu.ft.) > | | | | | | |
| | Height (ft) > | | | | | | |
| | Volume (cu.ft.) > | | | 1067 | | | |
| | Height (ft) > | | | 6158 | | | |
| 21. Was Cement Circulated to Ground Surface (or Bottom of Casing) Outside Casing? | | | | NO | | | |

| |
|--|
| 22. Remarks |
| Lead Cement additives: 10%gel,5%salt,3#gilsonite,3#phenoseal,1/4#celloflake,3/10%cfl-1 |
| Tail Cement additives: 2%gel,5%salt,3#gilsonite,3#phenoseal,1/4#celloflake,3/10%cfl-1 |
| |

OVER ➔

| CEMENTING TO PLUG AND ABANDON | PLUG #1 | PLUG #2 | PLUG #3 | PLUG #4 | PLUG #5 | PLUG #6 | PLUG #7 | PLUG #8 |
|--|---------|---------|---------|---------|---------|---------|---------|---------|
| 23. Cementing Date | | | | | | | | |
| 24. Size of Hole or Pipe Plugged (in) | | | | | | | | |
| 25. Depth to Bottom of Tubing or Drill Pipe (ft) | | | | | | | | |
| 26. Sacks of Cement Used (each plug) | | | | | | | | |
| 27. Slurry Volume Pumped (cu.ft.) | | | | | | | | |
| 28. Calculated Top of Plug (ft) | | | | | | | | |
| 29. Measured Top of Plug, If Tagged (ft) | | | | | | | | |
| 30. Slurry Wt. (lbs/gal) | | | | | | | | |
| 31. Type Cement | | | | | | | | |

CEMENTERS CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers cementing data only.

Will Bautista / Field Supervisor
Name and Title of Cementer's Representative

TRANS-TEX CEMENTING SERVICES, LLC
Cementing Company

Will Bautista
Signature

5019 BASIN ST

Midland, Texas 79703

432-694-4900

6/20/2013

Address

City State Zip Code

Tel: Area Code Number

Date: Mo. Day Yr.

OPERATOR'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers all well data.

Celeste G. Dale

Typed or Printed Name of Operators Representative

Sr. Regulatory Analyst

Title

Celeste G. Dale
Signature

4000 N. Big Spring St., Suite #305 Midland, TX 79705

Address City State Zip Code

432-683-1500

Tel: Area Code Number

07/18/13

Date: Mo. Day Yr.

Instruction to Form W-15, Cementing Report

IMPORTANT: Operators and cementing companies must comply with the requirements of the Commission's Statewide rules 8 (Water Protection), 13 (Casing, Cementing, Drilling, and Completion, and 14 (Well Plugging). For offshore operations, see the requirements of Rule 13 (c).

A. What to file. An operator should file an original and one copy of the completed Form W-15 for each cementing company used on a well. The cementing of different casing strings on a well by one cementing company may be reported on one form. Form W-15 should be filed with the following:

- An initial oil or gas completion report, Form W-2 or G-1, as required by Statewide or special field rules;
- Form W-4, Application for Multiple Completion, if the well is a multiple parallel casing completion; and
- Form W-3, Plugging Record, unless the W-3 is signed by the cementing company representative. When reporting dry holes, operators must complete W-15, in addition to Form W-3, to show any casing cemented in the hole.

B. Where to file. The appropriate Commission District Office for the county in which the well is located.

C. Surface casing. An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Texas Department of Water Resources, Austin. Before drilling a well in any field or area in which no field rules are in effect or in which surface casing requirements are not specified in the applicable rules, an operator must obtain a letter from the Department of Water Resources stating the protection depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the Commission.

D. Centralizers. Surface casing must be centralized at the shoe, above and below a stage collar or diverting tool, if run, and through usable-quality water zones. In nondeviated holes, a centralizer must be placed every fourth joint from the cement shoe to the ground surface or to the bottom of the cellar. All centralizers must meet API specifications.

E. Exceptions and alternative casing programs. The District Director may grant an exception to the requirements of Statewide Rule 13. In a written applications, an operator must state the reason for the requested exception and outline an alternate program for casing and cementing through the protection depth for strata containing usable-quality water. The District Director may approve, modify, or reject a proposed program. An operator must obtain approval of any exception before beginning casing and cementing operations.

F. Intermediate and production casing. For specific technical requirements, operators should consult Statewide Rule 12 (b) (3) and (4).

G. Plugging and abandoning. Cement plugs must be placed in the wellbore as required by Statewide Rule 14. The District Director may require additional cement plugs. For onshore or inland wells, a 10-foot cement plug must be placed in the top of the well, and the casing must be cut off three feet below the ground surface. All cement plugs, except the top plug, must have sufficient slurry volume to fill 100 feet of hole, plus ten percent for each 1000 feet of depth from the ground surface to the bottom of the plug.

To plug and abandon a well, operators must use only cementers approved by the Director of Field Operations. Cementing companies, service companies, or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.