



RAILROAD COMMISSION OF TEXAS

Form W-2

1701 N. Congress
P.O. Box 12967
Austin, Texas 78701-2967

Status: Approved
Date: 09/06/2016
Tracking No.: 159108

OIL WELL POTENTIAL TEST, COMPLETION OR RECOMPLETION REPORT,

| OPERATOR INFORMATION | | | |
|----------------------|---|----------|--------|
| Operator | PIONEER NATURAL RES. USA, INC. | Operator | 665748 |
| Operator | AMBER MCFADDEN PO BOX 3178 MIDLAND, TX 79702-0000 | | |

| WELL INFORMATION | | | |
|---|---|--------------|------------------------|
| API | 42-003-47294 | County: | ANDREWS |
| Well No.: | 43H | RRC District | 08 |
| Lease | UNIVERSITY "7-43" | Field | SPRABERRY (TREND AREA) |
| RRC Lease | 40532 | Field No.: | 85280300 |
| Location | Section: 36, Block: 7, Survey: UL, Abstract: U211 | | |
| Latitude | | Longitud | |
| This well is 17.2 miles in a E direction from ANDREWS, which is the nearest town in the | | | |

| FILING INFORMATION | | | |
|--|------------------|----------------------------|------------|
| Purpose of | Well Record Only | | |
| Type of | New Well | | |
| Well Type: | Shut-In Producer | Completion or Recompletion | 07/14/2016 |
| Type of Permit | Date | Permit No. | |
| Permit to Drill, Plug Back, or Rule 37 Exception | 11/19/2015 | 812044 | |
| Fluid Injection | | | |
| O&G Waste Disposal | | | |
| Other: | | | |

| COMPLETION INFORMATION | | | |
|---|----------------------------|--|------------|
| Spud | 02/07/2016 | Date of first production after rig | 07/14/2016 |
| Date plug back, deepening, drilling operation | 02/07/2016 | Date plug back, deepening, recompletion, drilling operation | 04/01/2016 |
| Number of producing wells on this lease this field (reservoir) including this | 19 | Distance to nearest well in lease & reservoir | 653.0 |
| Total number of acres in | 6615.70 | Elevation | 2989 RKB |
| Total depth TVD | 9507 | Total depth MD | 20165 |
| Plug back depth TVD | | Plug back depth MD | |
| Was directional survey made other inclination (Form W- | Yes | Rotation time within surface casing Is Cementing Affidavit (Form W-15) | 47.2 Yes |
| Recompletion or | No | Multiple | No |
| Type(s) of electric or other log(s) | Acceptable cased hole logs | | |
| Electric Log Other Description: | | | |
| Location of well, relative to nearest lease of lease on which this well is | 10261.0 Feet from the | Off Lease : | No |
| | 3375.0 Feet from the | South Line and | |
| | | West Line of the | |
| | | UNIVERSITY 7-43 Lease. | |

| FORMER FIELD (WITH RESERVOIR) & GAS ID OR OIL LEASE NO. | | | |
|---|---------------------|----------|--------------------|
| Field & Reservoir | Gas ID or Oil Lease | Well No. | Prior Service Type |
| PACKET: | N/A | | |

| | | | |
|--|-------|--------|-----------------|
| W2: | N/A | | |
| FOR NEW DRILL OR RE-ENTRY, SURFACE CASING DEPTH DETERMINED BY: | | | |
| GAU Groundwater Protection Determination | Depth | 1750.0 | Date 11/18/2015 |
| SWR 13 Exception | Depth | 2000.0 | |

| | | | |
|--|----|-----------------------|--|
| INITIAL POTENTIAL TEST DATA FOR NEW COMPLETION OR RECOMPLETION | | | |
| Date of | | Production | |
| Number of hours | 24 | Choke | |
| Was swab used during this | No | Oil produced prior to | |
| PRODUCTION DURING TEST PERIOD: | | | |
| Oil | | Gas | |
| Gas - Oil | 0 | Flowing Tubing | |
| Water | | | |
| CALCULATED 24-HOUR RATE | | | |
| Oil | | Gas | |
| Oil Gravity - API - 60.: | | Casing | |
| Water | | | |

| CASING RECORD | | | | | | | | | | | |
|---------------|-------------------------|------------|--------|---------|------------|------------|---------|--------|-------------|--------------|-----------------------|
| Ro | Type of Casing | Casing | Hole | Setting | Multi - | Multi - | Cement | Cement | Slurry | Top of | TOC |
| | | Size (in.) | Size | Depth | Stage Tool | Stage Shoe | Class | Amoun | Volume (cu. | Cement (ft.) | Determined By |
| 1 | Surface | 13 3/8 | 17 1/2 | 1922 | | | CLASS C | 1693 | 2850.0 | 0 | Circulated to Surface |
| 2 | Intermediate | 9 5/8 | 12 1/4 | 6040 | | | TXI & H | 1071 | 1897.5 | 3665 | Calculation |
| 3 | Conventional Production | 5 1/2 | 8 3/4 | 20133 | | | TXI | 2042 | 3632.0 | 3270 | Cement Evaluation Log |

| | | | | | | | | | |
|--------------|-------------------|------------------|------------------|---------------------|---------------------|---------------------|---------------------------|----------------------------|-----------------------|
| LINER RECORD | | | | | | | | | |
| <u>Ro</u> | <u>Liner Size</u> | <u>Hole Size</u> | <u>Liner Top</u> | <u>Liner Bottom</u> | <u>Cement Class</u> | <u>Cement Amoun</u> | <u>Slurry Volume (cu.</u> | <u>Top of Cement (ft.)</u> | <u>TOC Determined</u> |
| N/A | | | | | | | | | |

| | | | |
|---------------|-------------------|--------------------------------|-------------------|
| TUBING RECORD | | | |
| <u>Ro</u> | <u>Size (in.)</u> | <u>Depth</u> | <u>Size (ft.)</u> |
| 1 | 2 7/8 | 9415 | |
| | | <u>Packer Depth (ft.)/Type</u> | |
| | | / | |

| | | | |
|---------------------------------------|-------------------|-------------------|-----------------|
| PRODUCING/INJECTION/DISPOSAL INTERVAL | | | |
| <u>Ro</u> | <u>Open hole?</u> | <u>From (ft.)</u> | <u>To (ft.)</u> |
| 1 | No | L1 9729 | 19994.0 |

| | | | |
|---|--------------------------|---|-----------------------------|
| ACID, FRACTURE, CEMENT SQUEEZE, CAST IRON BRIDGE PLUG, RETAINER, ETC. | | | |
| Was hydraulic fracturing treatment | Yes | | |
| Is well equipped with a downhole sleeve? | Yes | If yes, actuation pressure | 9500.0 |
| Production casing test pressure (PSIG) | | Actual maximum pressure (PSIG) during | |
| hydraulic fracturing | 9500 | fracturin | 9258 |
| Has the hydraulic fracturing fluid disclosure been | Yes | | |
| <u>Ro</u> | <u>Type of Operation</u> | <u>Amount and Kind of Material Used</u> | <u>Depth Interval (ft.)</u> |

| FORMATION RECORD | | | | | |
|--|------------|-----------|----------|--------------|--------------------------------------|
| Formations | Encountere | Depth TVD | Depth MD | Is formation | Remarks |
| YATES | Yes | 3165.0 | 3165.0 | No | SEE REMARK ABOVE |
| SEVEN RIVERS | No | | | No | FORMATION DOESN'T EXIST IN THIS AREA |
| QUEEN | Yes | 4175.0 | 4175.0 | Yes | |
| GRAYBURG | Yes | 4668.0 | 4668.0 | Yes | |
| SAN ANDRES - CO2 FLOOD, HIGH FLOWS, H2S, CORROSIVE HOLT | Yes | 4825.0 | 4825.0 | Yes | |
| | No | | | No | FORMATION DOESN'T EXIST IN THIS AREA |
| GLORIETA | No | | | No | FORMATION DOESN'T EXIST IN THIS AREA |
| TUBB | No | | | No | FORMATION DOESN'T EXIST IN THIS AREA |
| CLEARFORK | Yes | 6814.0 | 6814.0 | Yes | |
| PERMIAN DETRITAL | No | | | No | FORMATION DOESN'T EXIST IN THIS AREA |
| LEON | No | | | No | FORMATION DOESN'T EXIST IN THIS AREA |
| WICHITA ALBANY | No | | | No | FORMATION DOESN'T EXIST IN THIS AREA |
| SPRABERRY | Yes | 8434.0 | 8434.0 | Yes | |
| DEAN | No | | | No | FORMATIO BELOW TVD |
| WOLFCAMP | No | | | No | FORMATIO BELOW TVD |
| CANYON | No | | | No | FORMATIO BELOW TVD |
| PENNSYLVANIAN | No | | | No | FORMATIO BELOW TVD |
| MCKEE | No | | | No | FORMATIO BELOW TVD |
| STRAWN | No | | | No | FORMATIO BELOW TVD |
| FUSSELMAN | No | | | No | FORMATIO BELOW TVD |
| DEVONIAN | No | | | No | FORMATIO BELOW TVD |
| SILURIAN | No | | | No | FORMATIO BELOW TVD |
| ELLENBURGER | No | | | No | FORMATIO BELOW TVD |
| Do the producing interval of this well produce H2S with a concentration in excess of 100 ppm | | | | | No |
| Is the completion being downhole commingled | | | No | | |

REMARKS

WELL RECORD ONLY, WAITING ON IP. PLEASE NOTE: THE NAME OF THIS WELL HAS BEEN CHANGED FROM UNIVERSITY 7-43 28H TO UNIVERSITY 7-43 43H DUE TO A LEASE CONSOLIDATION THAT WAS APPROVED BY THE RRC IN DECEMEBER OF 2015.

| RRC REMARKS | |
|--|--|
| PUBLIC COMMENTS: [RRC Staff 2016-08-03 09:03:57.189] EDL=10265 feet, max acres=680, SPRABERRY (TREND AREA) oil well | |
| CASING RECORD : PRODUCTION HOLE CROSSOVER FROM 8 3/4" TO 8 1/2" @ 8950'. KOP ~ 8950'. | |
| TUBING RECORD: | |
| PRODUCING/INJECTION/DISPOSAL INTERVAL : EST % WASH-OUT OR HOLE ENLARGEMENT SHOWN ON W-15 REFLECTS EXCESS CEMENT PUMPED. SLURRY VOLUME AND HEIGHT ON W-15 INCLUDES THE EXCESS CEMENT PUMPED. | |
| ACID, FRACTURE, CEMENT SQUEEZE, CAST IRON BRIDGE PLUG, RETAINER, ETC. : WE REQUEST A SWR-13 WAIVER FOR THE YATES FORMATION AS THERE ARE NO PRODUCING WELLS IN THAT FORMATION WITHIN 1 MILE OF THIS WELL. SEE ATTACHED MAP. | |
| POTENTIAL TEST DATA: | |

| OPERATOR'S CERTIFICATION | | | |
|--------------------------|----------------|--------|---------------------------|
| Printed | CASI RENFRO | Title: | Regulatory Specialist III |
| Telephone | (972) 444-9001 | Date | 07/28/2016 |



RAILROAD COMMISSION OF TEXAS

1701 N. Congress

P.O. Box 12967

Austin, Texas 78701-2967

CEMENTING REPORT

Form W-15

Rev. 08/2014

Cementer: Fill in shaded areas.

Operator: Fill in other items.

OPERATOR INFORMATION

Operator Name: Pioneer Natural Res. USA, Inc

Operator P-5 No.: 665748

Cementer Name: Schlumberger

Cementer P-5 No.: 754900

WELL INFORMATION

District No.: 08

County: ANDREWS

Well No.: 43H

API No.: 4200347294 Drilling Permit No.: 812044

Lease Name: University 7-43

Lease No.: 40532

Field Name: SPRABERRY (TREND AREA)

Field No.: 85280300

I. CASING CEMENTING DATA

Type of casing: ☐ Conductor ☒ Surface ☐ Intermediate ☐ Liner ☐ Production

Drilled hole size (in.): 7 1/2" Depth of drilled hole (ft.): 1924' Est. % wash-out or hole enlargement:

Size of casing in O.D. (in.): 13 3/8" Casing weight (lbs/ft) and grade: 54.5 J55 No. of centralizers used: 12

Was cement circulated to ground surface (or bottom of cellar) outside

casing? ☒ Yes ☐ No If no for surface casing, explain in Remarks.

Setting depth shoe (ft.): 1922'

Top of liner (ft.):

Setting depth liner (ft.):

Hrs. waiting on cement before drill-out: 12

Calculated top of cement (ft.): 0

Cementing date: 9-Feb-16

SLURRY

| Slurry No. | No. of Sacks | Class | Additives | Volume (cu.ft.) | Height (ft.) |
|------------|--------------|-------|-----------|-----------------|--------------|
| 1 | 1316 | C | Remarks | 2224.0 | 1524 |
| 2 | 377 | C | Remarks | 626.0 | 400 |
| 3 | | | | | |
| Total | 1693 | | | 2850.0 | 1924 |

II. CASING CEMENTING DATA

Type of casing: ☐ Surface ☐ Intermediate ☐ Production ☐ Tapered production ☐ Multi-stage cement shoe ☐ Multiple parallel strings

Drilled hole size (in.): Depth of drilled hole (ft.): Est. % wash-out or hole enlargement:

Size of casing in O.D. (in.): Casing weight (lbs/ft) and grade: No. of centralizers used:

Tapered string drilled hole size (in.)

Tapered string depth of drilled hole (ft.)

Upper: Lower:

Upper: Lower:

Tapered string size of casing in O.D. (in.)

Tapered string casing weight (lbs/ft) and grade

Tapered string no. of centralizers used

Upper: Lower:

Upper: Lower:

Upper: Lower:

Was cement circulated to ground surface (or bottom of cellar) outside casing?

☐ Yes ☐ No

Setting depth tool (ft.):

Hrs. waiting on cement before drill-out:

Calculated top of cement (ft.):

Cementing date:

SLURRY

| Slurry No. | No. of Sacks | Class | Additives | Volume (cu.ft.) | Height (ft.) |
|------------|--------------|-------|-----------|-----------------|--------------|
| 1 | | | | | |
| 2 | | | | | |
| 3 | | | | | |
| Total | | | | | |

III. CASING CEMENTING DATA

Type of casing: ☐ Surface ☐ Intermediate ☐ Production ☐ Tapered production ☐ Multi-stage cement/DV tool ☐ Multiple parallel strings

Drilled hole size (in.): Depth of drilled hole (ft.): Est. % wash-out or hole enlargement:

Size of casing in O.D. (in.): Casing weight (lbs/ft) and grade: No. of centralizers used:

Tapered string drilled hole size (in.)

Tapered string depth of drilled hole (ft.)

Upper: Lower:

Upper: Lower:

Tapered string size of casing in O.D. (in.)

Tapered string casing weight (lbs/ft) and grade

Tapered string no. of centralizers used

Upper: Lower:

Upper: Lower:

Upper: Lower:

Was cement circulated to ground surface (or bottom of cellar) outside casing?

☐ Yes ☐ No

Setting depth tool (ft.):

Hrs. waiting on cement before drill-out:

Calculated top of cement (ft.):

Cementing date:

SLURRY

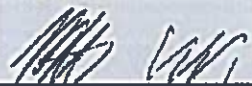
| Slurry No. | No. of Sacks | Class | Additives | Volume (cu.ft.) | Height (ft.) |
|------------|--------------|-------|-----------|-----------------|--------------|
| 1 | | | | | |
| 2 | | | | | |
| 3 | | | | | |
| Total | | | | | |

Schlumberger-Private

| CEMENTING TO SQUEEZE, PLUG BACK OR PLUG AND ABANDON | | | | | | | |
|---|---------|---------|---------|---------|---------|---------|---------|
| | PLUG #1 | PLUG #2 | PLUG #3 | PLUG #4 | PLUG #5 | PLUG #6 | PLUG #7 |
| Cementing Date | | | | | | | |
| Size of hole or pipe (in.) | | | | | | | |
| Depth to bottom of tubing or drill pipe (ft.) | | | | | | | |
| Cement retainer setting depth (ft.) | | | | | | | |
| CIBP setting depth (ft.) | | | | | | | |
| Amount of cement on top of CIBP (ft.) | | | | | | | |
| Sacks of cement used | | | | | | | |
| Slurry volume pumped (cu. ft.) | | | | | | | |
| Calculated top of plug (ft.) | | | | | | | |
| Measured top of plug, if tagged (ft.) | | | | | | | |
| Slurry weight (lbs/gal) | | | | | | | |
| Class/type of cement | | | | | | | |
| Perforate and squeeze (YES/NO) | | | | | | | |

| REMARKS |
|--|
| #1: 61lb/skD903+2%0079+0.13lb/skD130+2%5001+0.02gal/skD047+26lb/skD035 |
| #2: 94lb/skD903+0.1%0065+2%0020+0.02gal/skD047 |
| #3: 130 barrels to surface = 432 sacks |
| #4: |

CEMENTER'S 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.

| | | |
|---|-----------------------|---|
| Patrick McCann, FE | Schlumberger |  |
| Name and title of cementer's representative | Cementing Company | Signature |
| 32 E. Industrial Loop | Midland TX 79701 | (432) 683-1887 |
| Address | City, State, Zip Code | Tel: Area Code Number |
| | | February 9, 2016 |
| | | 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.

| | |
|---------------------------------------|---|
| Casi Renfro, Regulatory Specialist II |  |
| 5205 N. O'Connor Blvd., Suite 200 | Title |
| Irving, TX 75039 | Signature |
| 972.969.5687 | 6/23/16 |
| | Date: mo. day yr. |

I-15, Cementing Report

NOTICE: The Form W-15 must be submitted as an attachment to a Form G-1 (Gas Well Back Pressure Test, Completion or Recompletion Report, and Log), Form W-2 (Oil Well Potential Test, Completion or Recompletion Report, and Log), Form W-3 (Plugging Record), or Form W-4 (Application for Multiple Completion), any time cement is pumped in a wellbore.

- 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. The Form W-15 should be filed with the Form W-3, Plugging Record, unless the Form W-3 is signed by the cementing company representative. When reporting dry holes, operators must complete Form W-15, in addition to Form W-3, to show any casing cemented in the hole.
- How to file:** An oil and gas completion report and Form W-15 may be filed online using the Commission's Online System (<https://webapps.rrc.state.tx.us/security/login.do>) or a paper copy of the form may be mailed to the Commission in Austin (P.O. Box 12967, Austin, Texas 78711-2967).
- Surface casing:** An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Groundwater Advisory Unit in Austin. Sufficient cement shall be used to fill the annular space outside the casing from the shoe to the ground surface or to the bottom of the cellar. Before drilling a well, an operator must obtain a letter from the Groundwater Advisory Unit stating the protection depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the Commission. To plug and abandon a well, operators must use only cements approved by the Commission's Director of Field Operations in accordance with SWR 14 ([http://info.sos.state.tx.us/pls/pub/readtac\\$ext.TacPage?sl=R&app=9&p_dir=&p_rloc=&p_tloc=&p_ploc=&pg=1&p_tac=&ti=16&pt=1&ch=3&ri=14](http://info.sos.state.tx.us/pls/pub/readtac$ext.TacPage?sl=R&app=9&p_dir=&p_rloc=&p_tloc=&p_ploc=&pg=1&p_tac=&ti=16&pt=1&ch=3&ri=14)). 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.
- Estimated % wash-out:** If the estimated % wash-out is less than 20% (or 30% along the Gulf Coast), provide supporting documentation such as a caliper log to show how the estimated % wash-out was obtained.
- Multi-stage cement:** An operator must report the multi-stage cement shoe in II. Casing Cementing Data section by selecting the type of casing and Multi-stage cement shoe. The operator must report the multi-stage cement tool in III. Casing Cementing Data section by selecting the type of casing and Multi-stage cement/DV tool.
- Multiple parallel strings:** An operator should file the Form W-15 as an attachment to the Form W-4, Application for Multiple Completion. An operator may be required to submit multiple Form W-15s to show all data for multiple parallel strings.
- Slurry data:** If cement job exceeds three slurries, continue the list of slurries in the Slurry table in the subsequent Casing Cementing Data box.



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CEMENTING REPORT

Form W-15

Rev. 08/2014

Cementer: Fill in shaded areas.

Operator: Fill in other items.

OPERATOR INFORMATION

| | | | |
|----------------|---|-------------------|---------------|
| Operator Name: | Pioneer Natural Resources USA, INC | Operator P-5 No.: | 605748 |
| Cementer Name: | Schlumberger | Cementer P-5 No.: | 754900 |

WELL INFORMATION

| | | | |
|---------------|--------------------------------|------------|-------------------|
| District No.: | 08 | County: | ANDREWS |
| Well No.: | 43H | API No.: | 4200317294 |
| Lease Name: | University 7-43 | Lease No.: | 40932 |
| Field Name: | Spraberry (TRENCH AREA) | Field No.: | 85280300 |

I. CASING CEMENTING DATA

| | | | | | |
|---|------------------------------------|-----------------------------------|---|--|-------------------------------------|
| Type of casing: | <input type="checkbox"/> Conductor | <input type="checkbox"/> Surface | <input checked="" type="checkbox"/> Intermediate | <input type="checkbox"/> Liner | <input type="checkbox"/> Production |
| Drilled hole size (in.): | 12 1/4" | Depth of drilled hole (ft.): | 6100' | Est. % wash-out or hole enlargement: 150% | |
| Size of casing in O.D. (in.): | 9 5/8" | Casing weight (lbs/ft) and grade: | 40 L80 | No. of centralizers used: 15 | |
| Was cement circulated to ground surface (or bottom of cellar) outside casing? | | | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If no for surface casing, explain in Remarks. | |
| Setting depth shoe (ft.): | | | 6040' | Top of liner (ft.): | |
| Setting depth liner (ft.): | | | | | |
| Hrs. waiting on cement before drill-out: | 12 | Calculated top of cement (ft.): | 5665' | Cementing date: 20-Feb-16 | |

SLURRY

| Slurry No. | No. of Sacks | Class | Additives | Volume (cu.ft.) | Height (ft.) |
|------------|--------------|----------------|-----------|-----------------|--------------|
| 1 | 671 | TXI + Adds | Remarks | 1469.5 | 1875 |
| 2 | 400 | Class H + Adds | Remarks | 428.0 | 500 |
| 3 | | | | | |
| Total | 1071 | | | 1897.5 | 2375 |

II. CASING CEMENTING DATA

| | | | | | | |
|---|----------------------------------|---|-------------------------------------|--|--|--|
| Type of casing: | <input type="checkbox"/> Surface | <input type="checkbox"/> Intermediate | <input type="checkbox"/> Production | <input type="checkbox"/> Tapered production | <input type="checkbox"/> Multi-stage cement shoe | <input type="checkbox"/> Multiple parallel strings |
| Drilled hole size (in.): | | Depth of drilled hole (ft.): | | Est. % wash-out or hole enlargement: | | |
| Size of casing in O.D. (in.): | | Casing weight (lbs/ft) and grade: | | No. of centralizers used: | | |
| Tapered string drilled hole size (in.) | | Tapered string depth of drilled hole (ft.) | | | | |
| Upper: | Lower: | Upper: | Lower: | | | |
| Tapered string size of casing in O.D. (in.) | | Tapered string casing weight (lbs/ft) and grade | | Tapered string no. of centralizers used | | |
| Upper: | Lower: | Upper: | Lower: | | | |
| Was cement circulated to ground surface (or bottom of cellar) outside casing? | | | | <input type="checkbox"/> Yes <input type="checkbox"/> No | Setting depth tool (ft.): | |
| Hrs. waiting on cement before drill-out: | | Calculated top of cement (ft.): | | Cementing date: | | |

SLURRY

| Slurry No. | No. of Sacks | Class | Additives | Volume (cu.ft.) | Height (ft.) |
|------------|--------------|-------|-----------|-----------------|--------------|
| 1 | | | | | |
| 2 | | | | | |
| 3 | | | | | |
| Total | | | | | |

III. CASING CEMENTING DATA

| | | | | | | |
|---|----------------------------------|---|-------------------------------------|--|---|--|
| Type of casing: | <input type="checkbox"/> Surface | <input type="checkbox"/> Intermediate | <input type="checkbox"/> Production | <input type="checkbox"/> Tapered production | <input type="checkbox"/> Multi-stage cement/DV tool | <input type="checkbox"/> Multiple parallel strings |
| Drilled hole size (in.): | | Depth of drilled hole (ft.): | | Est. % wash-out or hole enlargement: | | |
| Size of casing in O.D. (in.): | | Casing weight (lbs/ft) and grade: | | No. of centralizers used: | | |
| Tapered string drilled hole size (in.) | | Tapered string depth of drilled hole (ft.) | | | | |
| Upper: | Lower: | Upper: | Lower: | | | |
| Tapered string size of casing in O.D. (in.) | | Tapered string casing weight (lbs/ft) and grade | | Tapered string no. of centralizers used | | |
| Upper: | Lower: | Upper: | Lower: | | | |
| Was cement circulated to ground surface (or bottom of cellar) outside casing? | | | | <input type="checkbox"/> Yes <input type="checkbox"/> No | Setting depth tool (ft.): | |
| Hrs. waiting on cement before drill-out: | | Calculated top of cement (ft.): | | Cementing date: | | |

SLURRY

| Slurry No. | No. of Sacks | Class | Additives | Volume (cu.ft.) | Height (ft.) |
|------------|--------------|-------|-----------|-----------------|--------------|
| 1 | | | | | |
| 2 | | | | | |
| 3 | | | | | |
| Total | | | | | |

| CEMENTING TO SQUEEZE, PLUG BACK OR PLUG AND ABANDON | | | | | | | |
|---|---------|---------|---------|---------|---------|---------|---------|
| | PLUG #1 | PLUG #2 | PLUG #3 | PLUG #4 | PLUG #5 | PLUG #6 | PLUG #7 |
| Cementing Date | | | | | | | |
| Size of hole or pipe (in.) | | | | | | | |
| Depth to bottom of tubing or drill pipe (ft.) | | | | | | | |
| Cement retainer setting depth (ft.) | | | | | | | |
| CIBP setting depth (ft.) | | | | | | | |
| Amount of cement on top of CIBP (ft.) | | | | | | | |
| Sacks of cement used | | | | | | | |
| Slurry volume pumped (cu. ft.) | | | | | | | |
| Calculated top of plug (ft.) | | | | | | | |
| Measured top of plug, if tagged (ft.) | | | | | | | |
| Slurry weight (lbs/gal) | | | | | | | |
| Class/type of cement | | | | | | | |
| Perforate and squeeze (YES/NO) | | | | | | | |

| REMARKS |
|---|
| #1: 75ppsD049 + 5ppsD042 + 0.02gpsD047 + 0.1%D208 + 0.5%D238 + 0.1%D013 + 2%D154 + 0.13ppsD130 + 3%D174 |
| #2: 94pps D909 + 0.02gpsD047 + 0.1%D065 + 0.15%D800 |
| #3: |
| #4: |

CEMENTER'S 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.

Matthew Courtney, FE2
Name and title of cementer's representative

Schlumberger
Cementing Company


Signature

32 E. Industrial Loop Midland TX 79701
Address City, State, Zip Code

(432) 683-1887
Tel: Area Code Number

February 20, 2016
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.

Casi Renfro, Regulatory Specialist II
5205 N. O'Connor Blvd., Suite 200
Irving, TX 75039
972.969.5687


Title Signature
7/14/16
Tel: Area Code Number Date: mo. day yr.

-15, Cementing Report

NOTICE: The Form W-15 must be submitted as an attachment to a Form G-1 (Gas Well Back Pressure Test, Completion or Recompletion Report, and Log), Form W-2 (Oil Well Potential Test, Completion or Recompletion Report, and Log), Form W-3 (Plugging Record), or Form W-4 (Application for Multiple Completion), any time cement is pumped in a wellbore.

- 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. The Form W-15 should be filed with the Form W-3, Plugging Record, unless the Form W-3 is signed by the cementing company representative. When reporting dry holes, operators must complete Form W-15, in addition to Form W-3, to show any casing cemented in the hole.
- How to file: An oil and gas completion report and Form W-15 may be filed online using the Commission's Online System (<https://webapps.rrc.state.tx.us/security/login.do>) or a paper copy of the form may be mailed to the Commission in Austin (P.O. Box 12967, Austin, Texas 78711-2967).
- Surface casing: An operator must set and cement sufficient surface casing to protect all usable quality water strata, as defined by the Groundwater Advisory Unit in Austin. Sufficient cement shall be used to fill the annular space outside the casing from the shoe to the ground surface or to the bottom of the cellar. Before drilling a well, an operator must obtain a letter from the Groundwater Advisory Unit stating the protection depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the Commission. To plug and abandon a well, operators must use only cements approved by the Commission's Director of Field Operations in accordance with SWR 14 ([http://info.sos.state.tx.us/pis/pub/readtac\\$ext.TacPage?sl=R&app=9&p_dir=&p_rloc=&p_tloc=&p_ploc=&pg=1&p_tac=&ti=16&pt=1&ch=3&rl=14](http://info.sos.state.tx.us/pis/pub/readtac$ext.TacPage?sl=R&app=9&p_dir=&p_rloc=&p_tloc=&p_ploc=&pg=1&p_tac=&ti=16&pt=1&ch=3&rl=14)). 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.
- Estimated % wash-out: If the estimated % wash-out is less than 20% (or 30% along the Gulf Coast), provide supporting documentation such as a caliper log to show how the estimated % wash-out was obtained.
- Multi-stage cement: An operator must report the multi-stage cement shoe in II. Casing Cementing Data section by selecting the type of casing and Multi-stage cement shoe. The operator must report the multi-stage cement tool in III. Casing Cementing Data section by selecting the type of casing and Multi-stage cement/OV tool.
- Multiple parallel strings: An operator should file the Form W-15 as an attachment to the Form W-4, Application for Multiple Completion. An operator may be required to submit multiple Form W-15s to show all data for multiple parallel strings.
- Slurry data: If cement job exceeds three slurries, continue the list of slurries in the Slurry table in the subsequent Casing Cementing Data box.



RAILROAD COMMISSION OF TEXAS

1701 N. Congress

P. O. Box 12967

Austin, Texas 78701-2967

CEMENTING REPORT

Form W-15

Rev. 05/2014

Cementor: Fill in shaded areas.

Operator: Fill in other items.

OPERATOR INFORMATION

| | | | |
|----------------|---|-------------------|---------------|
| Operator Name: | Pioneer Natural Resources USA, INC | Operator P-5 No.: | 665748 |
| Cementor Name: | Schlumberger | Cementor P-5 No.: | 754900 |

WELL INFORMATION

| | | | |
|---------------|------------------------|----------------------|-------------------|
| District No.: | 08 | County: | ANDREWS |
| Well No.: | 43H | API No.: | 4200347294 |
| Lease Name: | University 7-43 | Drilling Permit No.: | 812044 |
| Field Name: | Spraberry (Trend Area) | Lease No.: | 40532 |
| | | Field No.: | 85280300 |

I. CASING CEMENTING DATA

| | | | | | |
|---|---|-----------------------------------|----------------|--------------------------------------|-----------------|
| Type of casing: | <input type="checkbox"/> Conductor <input type="checkbox"/> Surface <input type="checkbox"/> Intermediate <input type="checkbox"/> Liner <input checked="" type="checkbox"/> Production | | | | |
| Drilled hole size (in.): | 8 3/4" / 8 1/2" | Depth of drilled hole (ft.): | 20165' | Est. % wash-out or hole enlargement: | |
| Size of casing in O.D. (in.): | 5 1/2" | Casing weight (lbs/ft) and grade: | 20 P110 | No. of centralizers used: | 43 |
| Was cement circulated to ground surface (or bottom of cellar) outside casing? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Setting depth shoe (ft.): | 20133' | Top of liner (ft.): | |
| | If no for surface casing, explain in Remarks. | Setting depth liner (ft.): | | | |
| Hrs. waiting on cement before drill-out: | 12 | Calculated top of cement (ft.): | 3270 | Cementing date: | 1-Apr-16 |

SLURRY

| Slurry No. | No. of Sacks | Class | Additives | Volume (cu.ft.) | Height (ft.) |
|------------|--------------|-------|-----------|-----------------|--------------|
| 1 | 362 | TDI | Remarks | 927 | 3505 |
| 2 | 1680 | TDI | Remarks | 2705 | 11202 |
| 3 | | | | | |
| Total | 2042 | | | 3632 | 14707 |

II. CASING CEMENTING DATA

| | | | | | |
|---|--|---|--------|---|--------|
| Type of casing: | <input type="checkbox"/> Surface <input type="checkbox"/> Intermediate <input type="checkbox"/> Production <input type="checkbox"/> Tapered production <input type="checkbox"/> Multi-stage cement shoe <input type="checkbox"/> Multiple parallel strings | | | | |
| Drilled hole size (in.): | | Depth of drilled hole (ft.): | | Est. % wash-out or hole enlargement: | |
| Size of casing in O.D. (in.): | | Casing weight (lbs/ft) and grade: | | No. of centralizers used: | |
| Tapered string drilled hole size (in.) | | Tapered string depth of drilled hole (ft.) | | | |
| Upper: | Lower: | Upper: | Lower: | | |
| Tapered string size of casing in O.D. (in.) | | Tapered string casing weight (lbs/ft) and grade | | Tapered string no. of centralizers used | |
| Upper: | Lower: | Upper: | Lower: | Upper: | Lower: |
| Was cement circulated to ground surface (or bottom of cellar) outside casing? | <input type="checkbox"/> Yes <input type="checkbox"/> No | Setting depth tool (ft.): | | | |
| Hrs. waiting on cement before drill-out: | | Calculated top of cement (ft.): | | Cementing date: | |

SLURRY

| Slurry No. | No. of Sacks | Class | Additives | Volume (cu.ft.) | Height (ft.) |
|------------|--------------|-------|-----------|-----------------|--------------|
| 1 | | | | | |
| 2 | | | | | |
| 3 | | | | | |
| Total | | | | | |

III. CASING CEMENTING DATA

| | | | | | |
|---|---|---|--------|---|--------|
| Type of casing: | <input type="checkbox"/> Surface <input type="checkbox"/> Intermediate <input type="checkbox"/> Production <input type="checkbox"/> Tapered production <input type="checkbox"/> Multi-stage cement/DV tool <input type="checkbox"/> Multiple parallel strings | | | | |
| Drilled hole size (in.): | | Depth of drilled hole (ft.): | | Est. % wash-out or hole enlargement: | |
| Size of casing in O.D. (in.): | | Casing weight (lbs/ft) and grade: | | No. of centralizers used: | |
| Tapered string drilled hole size (in.) | | Tapered string depth of drilled hole (ft.) | | | |
| Upper: | Lower: | Upper: | Lower: | | |
| Tapered string size of casing in O.D. (in.) | | Tapered string casing weight (lbs/ft) and grade | | Tapered string no. of centralizers used | |
| Upper: | Lower: | Upper: | Lower: | Upper: | Lower: |
| Was cement circulated to ground surface (or bottom of cellar) outside casing? | <input type="checkbox"/> Yes <input type="checkbox"/> No | Setting depth tool (ft.): | | | |
| Hrs. waiting on cement before drill-out: | | Calculated top of cement (ft.): | | Cementing date: | |

SLURRY

| Slurry No. | No. of Sacks | Class | Additives | Volume (cu.ft.) | Height (ft.) |
|------------|--------------|-------|-----------|-----------------|--------------|
| 1 | | | | | |
| 2 | | | | | |
| 3 | | | | | |
| Total | | | | | |



RAILROAD COMMISSION OF TEXAS

OIL AND GAS DIVISION

OPERATOR Name: PIONEER NATURAL RES. USA, INC.

RE: Lease: UNIVERSITY 7-43

Address1: ATTN WELDON PIERSON

Address2: 5205 N O'CONNOR BLVD SUITE 200

City: IRVING

State: TX

Well No: 28H

Sec: 36 **Block:** 7

County: ANDREWS

Survey Name: UL

SWR13EX Application Number: 5336

Drilling Permit No: 812044

SWR 13 CASING EXCEPTION APPLICATION/ALTERNATIVE REQUEST APPROVED

The Proposed Casing and Cementing Program submitted for the **LEASE NAME:** UNIVERSITY 7-43 ;
WELL NUMBER: 28H has been approved by the Railroad Commission of Texas District Office.

- a. A copy of this approved letter must be kept on location during all phases of drilling and/or plugging operations. Once approved, changes CANNOT be made to the Proposed Casing Program on the original application without additional approval from the Railroad Commission of Texas District Office.
- b. Any substantive modifications to the cement program require prior approval from the Railroad Commission of Texas District Office, and may require re-submission of the SWR 13 (Statewide Rule 13) Alternate Surface Casing Application. Contact the Railroad Commission of Texas District Office for more information.
- c. The tail slurry must be sufficient to fill the Zone of Critical Cement as described in Statewide Rule 13(b)(1)(H)(i). In addition, all cement slurries must be mixed on location as described in Application for Alternate Surface Casing Program.
- d. The casing and cement program shall adhere to the following specifications:
Set 2000 feet of surface casing and circulate cement from the shoe to the ground surface.

IF CEMENT IS NOT CIRCULATED TO THE GROUND SURFACE AS REQUIRED BY THIS EXCEPTION, YOU MUST CONTACT THE RAILROAD COMMISSION OF TEXAS DISTRICT OFFICE IMMEDIATELY AND FOLLOW THE PROCEDURES SET OUT IN RULE 13(b)(1)(H)(iii) OR AS REQUIRED BY THE RAILROAD COMMISSION OF TEXAS DISTRICT OFFICE.

You must comply with all other provisions of SWR 13 (Statewide Rule 13) and a representative of the cementing company who performs the cementing job for the protection of usable quality water strata must sign the Form W-15 attesting to the information regarding cementing operations performed; including circulation of cement. (Note: If surface casing is set below the approved depth, this can result in denial of future Statewide Rule 13(b)(1)(H)(i) requests.) A condition of the approved drilling permit requires notification to the Railroad Commission of Texas District Office eight (8) hours prior to the time casing is to be set/cemented in the well. If your exception request was submitted after the subject well has been drilled and completed, the operator may be referred for enforcement action.

This authorization shall expire within five (5) years from the date the Groundwater Protection Determination was issued, or at the expiration of the drilling permit (if the well is not spudded prior to expiration) for the referenced well, whichever occurs first. Furthermore, this authorization supersedes any prior authorizations issued for the referenced well.

This exception is based on information provided when the application was submitted on 11/30/2015 .
If any information has changed, you must contact the appropriate Railroad Commission of Texas District Office, and submit a new application if applicable. If you have questions, please contact the appropriate Oil and Gas District office.

RRC APPROVAL BY: Erik Hanson

DATE: 12/03/2015

DISTRICT DIRECTOR

Tracking No.: 159108

This facsimile L-1 was generated electronically from data submitted to the RRC.

Instructions

When to File Form L-1:

- with Forms G-1, W-2, and GT-1 for new and deepened gas, oil, and geothermal wells
- with Form W-3 for plugged dry holes
- when sending in a log which was held under a request for confidentiality and the period for confidentiality has not yet expired.

When is Form L-1 NOT required:

- with Forms W-2, G-1, and GT-1 filed for injection wells, disposal wells, water supply wells, service wells, re-test wells, re-classifications, and plugbacks of oil, gas or geothermal wells
- with Form W-3 for plugging of other than a dry hole

Where to File Form L-1:

- with the appropriate Commission district office

Filling out Form L-1:

- Section I and the signature section must be filled out for all wells
- complete only the appropriate part of Section II

Type of log required:

- any wireline survey run for the purpose of obtaining lithology, porosity, or resistivity information
- no more than one such log is required but it must be of the subject well
- if such log is NOT run on the subject well, do NOT substitute any other type of log; just select Section II, Part A below

SECTION I. IDENTIFICATION

| | | |
|--|-------------------------------|--------------------------------|
| Operator Name: PIONEER NATURAL RES. USA, INC. | District No. 08 | Completion Date: 07/14/2016 |
| Field Name SPRABERRY (TREND AREA) | Drilling Permit No. 812044 | |
| Lease Name UNIVERSITY "7-43" | Lease/ID No. 40532 | Well No. 43H |
| County ANDREWS | API No. 42- 003-47294 | |

SECTION II. LOG STATUS (Complete either A or B)

☐ A. BASIC ELECTRIC LOG NOT RUN

☒ B. BASIC ELECTRIC LOG RUN. (Select one)

- ☐ 1. Confidentiality is requested and a copy of the header for each log that has been run on the well is attached.
- ☐ 2. Confidentiality already granted on basic electric log covering this interval (applicable to deepened wells only).
- ☐ 3. Basic electric log covering this interval already on file with Commission (applicable to deepened wells only).
- ☒ 4. Log attached to (select one):

☒ (a) Form L-1 (this form). If the company/lease name on log is different from that shown in Section I, please enter name on log here: _____

Check here if attached log is being submitted after being held confidential. ☐

☐ (b) Form P-7, Application for Discovery Allowable and New Field Designation.

☐ (c) Form W-4, Application for Multiple Completion:

Lease or ID No(s). _____

Well No(s). _____

CASI RENFRO

Signature

PIONEER NATURAL RES. USA, INC.

Name (print)

Regulatory Specialist III

Title

(972) 444-9001

Phone

07/28/2016

Date

-FOR RAILROAD COMMISSION USE ONLY-



Radial Cement Bond Variable Density Log with Gamma Ray/CCL

| | | | | | | | |
|---|---------------------------|-----------------------------------|---------|---------------|----------|-------------------------------|----|
| Company Well Field County State | Pioneer Natural Resources | Company Pioneer Natural Resources | | | | | |
| | University 7-43 28H | Well University 7-43 28H | | | | | |
| | Sprayberry (Trend Area) | Field Sprayberry (Trend Area) | | | | | |
| | Andrews | County Andrews | | | State TX | | |
| Location: | | API # : 42-003-47294-0000 | | | | Other Services | |
| SEC | | TWP | | RGE | | Junk Basket Gauge Ring 4.625" | |
| Permanent Datum | | Ground Level | | Elevation | | 2,960' | |
| Log Measured From | | Kelly Bushing 29' APD | | K.B. 2,988' | | D.F. 2,987' | |
| Drilling Measured From | | Kelly Bushing | | G.L. 2,960' | | | |
| Date | | April 27, 2016 | | | | | |
| Run Number | | One | | | | | |
| Depth Driller | | 20,165' | | | | | |
| Depth Logger | | 9,720' | | | | | |
| Bottom Logged Interval | | 9,715' | | | | | |
| Top Log Interval | | Surface | | | | | |
| Open Hole Size | | 8.75" | | | | | |
| Type Fluid | | Water | | | | | |
| Density / Viscosity | | N/A | | | | | |
| Max. Recorded Temp. | | 163 Deg F | | | | | |
| Estimated Cement Top | | 3,270' | | | | | |
| Time Well Ready | | ROA | | | | | |
| Time Logger on Bottom | | 18:20 | | | | | |
| Equipment Number | | 120 | | | | | |
| Location | | Midland | | | | | |
| Recorded By | | Aaron Norton | | | | | |
| Witnessed By | | Felipe Diaz | | | | | |
| Borehole Record | | | | Tubing Record | | | |
| Run Number | Bit | From | To | Size | Weight | From | To |
| Surface | 17.5" | 129' | 1,924' | | | | |
| Intermediate | 12.25" | 1,924' | 6,100' | | | | |
| Production | 8.75" | 6,100' | 8,950' | | | | |
| Production 2 | 8.50" | 8,950' | 20,165' | | | | |
| Casing Record | | Size | | Wgt/Ft | | Top | |
| Surface String | | 13.375" | | 54.5# | | Surface | |
| Prot. String | | 9.625" | | 40# | | Surface | |
| Production String | | 5.5" | | 20# | | Surface | |
| Liner | | | | | | | |
| Short Joint | | | | | | 8,915' | |

<<< Fold Here >>>

All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

Comments

Primary Log of Well
Logged with 1,500 PSI applied surface pressure
Log Correlated To Short Joint
as per Customer Request

Thank You For Choosing Nine Energy Service



Main Pass

1500 PSI Surface Pressure

GROUNDWATER PROTECTION DETERMINATION

Form GW-2



Groundwater Advisory Unit

Date Issued: 18 November 2015**GAU Number:** 19028**Attention:** PIONEER NATURAL RES. USA,
ATTN WELDON PIERSON
IRVING, TX 75039**Operator No.:** 665748**API Number:**
County: ANDREWS
Lease Name: UNIVERSITY 7-43
Lease Number:
Well Number: 27H
Total Vertical Depth: 9500
Latitude: 32.351969
Longitude: -102.254447
Datum: NAD27**Purpose:** New Drill**Location:** Survey-UL; Block-7; Section-36

To protect usable-quality groundwater at this location, the Groundwater Advisory Unit of the Railroad Commission of Texas recommends:

The interval from the land surface to a depth of 300 feet, and the zone from 1350 to 1750 feet must be protected.

This recommendation is applicable to all wells within a radius of 200 feet of this location.

Note: Unless stated otherwise, this recommendation is intended to apply only to the subject well and not for area-wide use. This recommendation is for normal drilling, production, and plugging operations only. It does not apply to saltwater disposal operation into a nonproductive zone (RRC Form W-14).

This determination is based on information provided when the application was submitted on 11/18/2015. If the location information has changed, you must contact the Groundwater Advisory Unit, and submit a new application if necessary. If you have questions, please contact us at 512-463-2741 or gau@rrc.texas.gov.

Groundwater Advisory Unit, Oil and Gas Division

Form GW-2 P.O. Box 12967 Austin, Texas 78771-2967 512-463-2741 Internet address: www.rrc.texas.gov
Rev. 02/2014

Pioneer Natural Resources

University 7-43 42H-44H pad
















POSTED WELL DATA

Well Name
ProdEM

•

Well Numb

WELL SYMBOLS

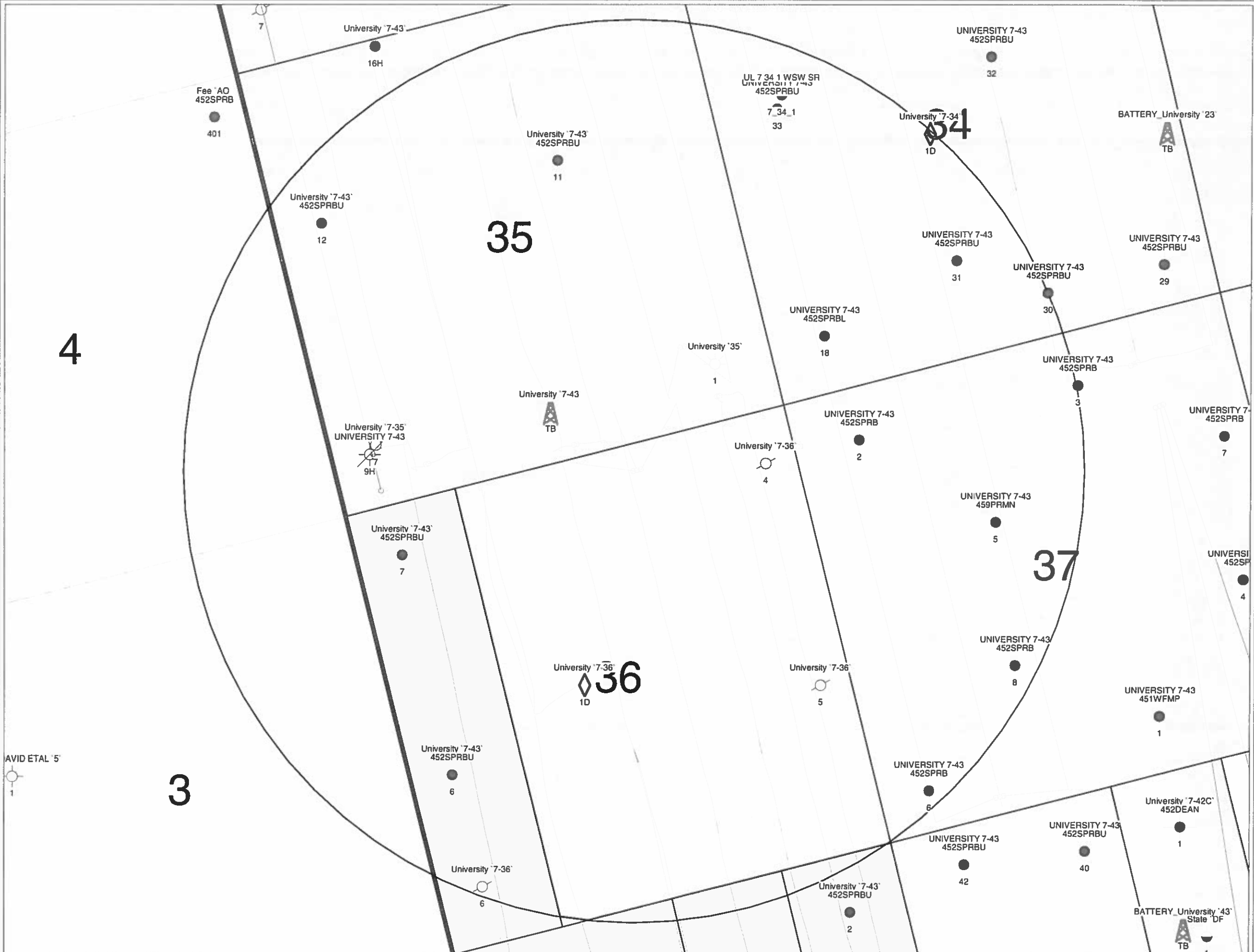
-  Abandoned Well
-  Abandoned Oil Well
-  Completion in Progress
-  Dry Hole, With Show of Gas
-  Dry Hole, With Show of Oil
-  Dry Hole
-  Proposed Injector
-  Location (Default)
-  Oil Well
-  Shut-in Oil and Gas
-  Facilities
-  Water Supply
-  Junked & Abandoned

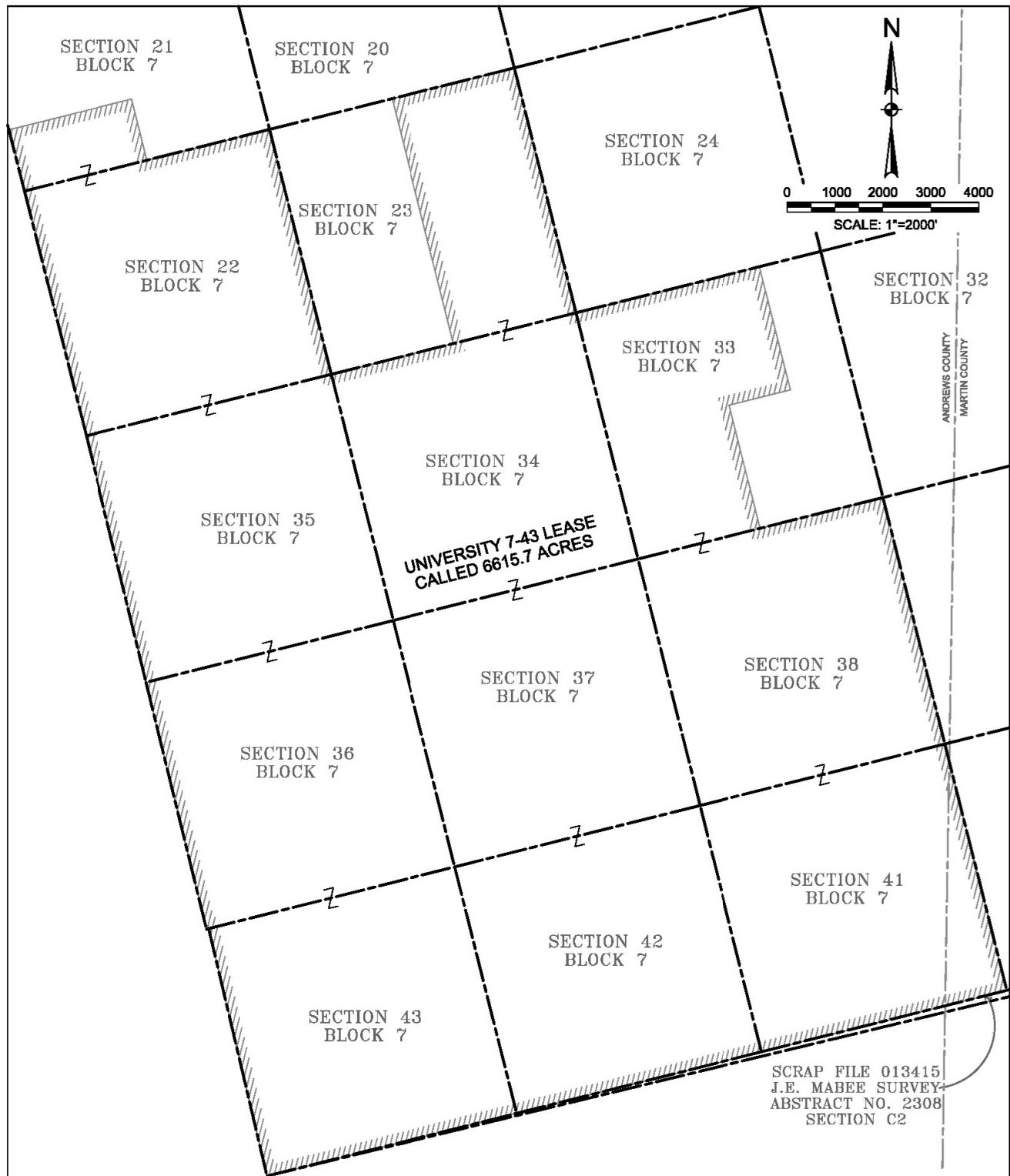
REMARKS

Circle Represents 1 Mil

By: Casi Renfr

July 14, 201





LEGEND

| | |
|---------------|----------------------------|
| //// | LEASE LINE |
| --- | WELL LATERAL |
| --- | SECTION LINE |
| 7 | LAND HOOK |
| --- | COUNTY LINE |
| FIR | FOUND IRON ROD |
| C.M. | CONTROLLING MONUMENT |
| N.T.S. | NOT TO SCALE |
| CONC B/D | CONCRETE BRASS DISK |
| CONC BRKN/B/D | CONCRETE BROKEN BRASS DISK |
| STNMND | STONE MOUND |
| GIP | GALVANIZED IRON PIPE |
| FN | FND NAIL |
| FIP | FOUND IRON PIPE |
| FIR | FOUND IRON ROD |

ALL OF SECTION 22, SECTION 34, SECTION 35, SECTION 36, SECTION 37, SECTION 38, SECTION 41, SECTION 42, SECTION 43, THE S/2 OF THE SW/4 OF SECTION 21, THE E/2 OF SECTION 23, THE W/2 OF SECTION 33 AND THE W/2 OF THE NE/4 OF SECTION 33 ALL IN BLOCK 7, UNIVERSITY LAND SURVEY, ANDREWS COUNTY, TEXAS AND MARTIN COUNTY, TEXAS

PIONEER NATURAL RESOURCES
UNIVERSITY 7-43 LEASE



DATED: 10/5/2015
BY: JUAN GONZALEZ

TBPLS FIRM NO. 10193998
HALFF ASSOCIATES INC., ENGINEERS - SURVEYORS
4500 W. Millinole Ave. Ste 301 D ~ Midland, TEXAS ~ 79703
SCALE: 1"=2000' (432)-695-6110 AVO. 29678-W038

PIONEER
NATURAL RESOURCES

| UNIVERSITY 7-43 #28H AS-DRILLED | NORTHING (NAD27) | EASTING (NAD27) | LATITUDE (NAD 27) | LONGITUDE (NAD 27) | SECTION LINE | | LEASE LINE | |
|---|------------------|-----------------|-------------------|--------------------|--------------|---------|------------|---------|
| SURFACE HOLE (SHL) | 981840.3 | 1406675.5 | 32.3520013 | 102.2543067 | 367' N | 1948' E | 10261' S | 3375' W |
| POINT OF PENETRATION (POP) DEPTH: -6,814' | 982520.4 | 1406405.7 | 32.3538574 | 102.2552181 | 358' N | 2043' E | 10231' N | 3274' W |
| FIRST TAKE POINT (FTP) DEPTH: -9,729' | 982074.3 | 1406528.1 | 32.3526374 | 102.2547971 | 104' S | 2034' E | 10524' S | 3287' W |
| LAST TAKE POINT (LTP) DEPTH: -19,994' | 972128.9 | 1409024.4 | 32.3254270 | 102.2461628 | 272' S | 2037' E | 272' S | 3346' W |
| BOTTOM HOLE (BHL) DEPTH: -20,165' | 971964.9 | 1409072.1 | 32.3249784 | 102.2459991 | 102' S | 2031' E | 102' S | 3355' W |

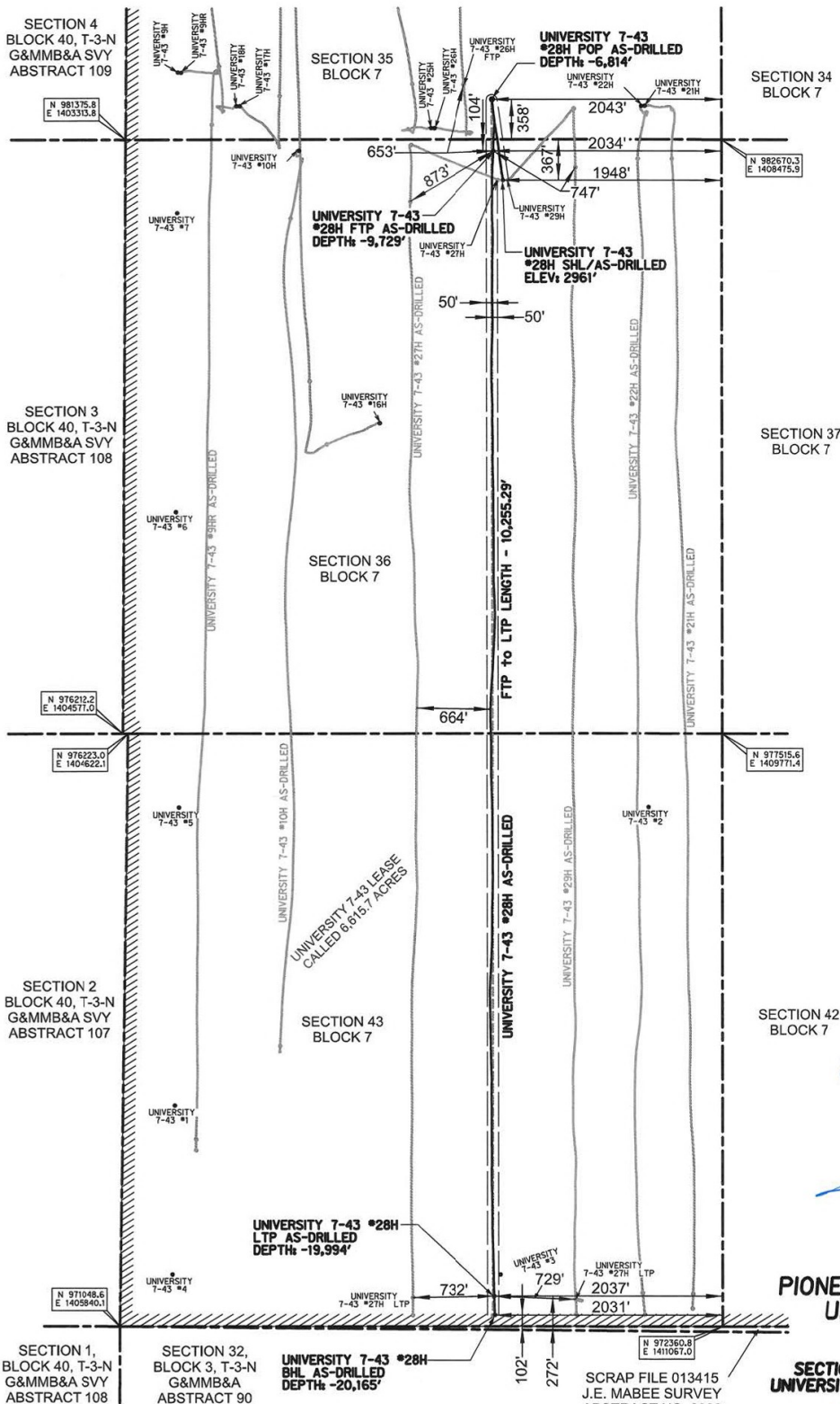


0 500 1000 1500 2000

SCALE: 1"=1000'

LEGEND

- LEASE LINE
- WELL LATERAL
- ADJACENT WELL LATERAL
- PROPOSED WELL BORE
- PERMITTED WELL BORE
- LABOR LINE
- LEASE LINE
- N.T.S.
- NOT TO SCALE



NOTES:

THE BASIS OF BEARING IS THE TEXAS COORDINATE SYSTEM OF 1927, CENTRAL ZONE (4203), AS DERIVED BY GPS MEASUREMENT BASED UPON THE CORN.

ALL TEXAS STATE PLANE COORDINATES SHOWN HEREON ARE NAD 27 GRID COORDINATES AS COMPUTED BY CORPSCON VERSION 6.0.1. ALL GEOGRAPHIC COORDINATES SHOWN HEREON WERE CONVERTED USING CORPSCON VERSION 6.0.1. UNLESS OTHERWISE NOTED, ALL DISTANCES SHOWN HEREON ARE GRID DISTANCES AND THEY CAN BE CONVERTED TO SURFACE WHEN MULTIPLIED WITH A "SURFACE ADJUSTMENT FACTOR" OF 1.000232816 AS CALCULATED BY CORPSCON.

ELEVATIONS SHOWN HEREON ARE NAVD83 AS DERIVED BY GPS.

THIS EXHIBIT IS FOR TEXAS RAILROAD COMMISSION WELL PERMITTING PURPOSES ONLY. BOUNDARY LINES AND ACRES SHOWN HEREON REFLECT THE SURVEYORS PROFESSIONAL OPINION OF MINERAL RIGHTS AS DETERMINED FROM CLIENT-PROVIDED OIL AND GAS MINERAL LEASE DOCUMENTATION. THE INFORMATION DEPICTED HEREON SHALL NOT BE USED IN THE CONVEYANCE OF FEE TITLE TO REAL PROPERTY.

ALL MEASUREMENTS TO LEASE, UNIT, AND SURVEY LINES ARE PERPENDICULAR TO SAID LINES.

THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT.

THE AS-DRILLED DATA USED TO DEPICT THE WELL BORE PATH WAS PROVIDED BY OTHERS. NO WARRANTY IS EITHER EXPRESSED OR IMPLIED AS TO THE ACCURACY OF THE INFORMATION HEREIN.

SECTION 42
BLOCK 7



09/02/2016

NOTE: WELL IS LOCATED ABOUT 17.2 MILES EAST OF ANDREWS, ANDREWS COUNTY, TEXAS.
UNIVERSITY 7-43 LEASE CALLED 6,615.7 ACRES

**PIONEER NATURAL RESOURCES
UNIVERSITY 7-43 #28H
AS-DRILLED PLAT**

**LOCATED IN
SECTION 36 AND SECTION 43, BLOCK 7,
UNIVERSITY LAND SURVEY, ANDREWS COUNTY,
TEXAS**



DATED: 8/2/2016
BY: JOE McDONALD

TBPLS FIRM NO. 10193998
HALFF ASSOCIATES INC., ENGINEERS ~ SURVEYORS
3300 N A Street, Bldg 1, Ste 114 ~ Midland, TEXAS ~ 79705
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