Received Page ___ of __ Office of Oil & Gas

Reviewed by:

State of West Virginia Department of Environmental Protection - Office of Oil and Oas R 1 4 2015 Well Operator's Report of Well Work

| | DDRIDGE | Distri | ct WEST UN | ION | |
|---|---------------------------|--------------------------------|-------------------|--------------------|------------------------|
| Quad OXFORD 7.5' Pad Name C | XF156 | | Pool Name | | |
| Farm name HEASTER, CHARLES P., ET AL | | | Number 513 | 140 | |
| Operator (as registered with the OOG) EQT Production | on Company | | | | |
| Address 625 Liberty Ave. EQT Plaza, Suite 1700 City | | S | tate PA | Zip _1 | 5222 |
| As Drilled location NAD 83/UTM Attach an as- Top hole Northing 4342156. | drilled plat, profil 5 | e view, and devia Easting 5 | | | |
| Landing Point of Curve Northing 4342363.1 | | Easting 51 | | | |
| Bottom Hole Northing 4344567.4 | | Easting 51 | 7441.2 | | |
| | ell New Ex | | Type of Report | | |
| Permit Type Deviated Horizontal Ho | rizontal 6A 🗆 | Vertical I | Depth Type | □ Deep | □ Shallow |
| Type of Operation □ Convert □ Deepen ■ Drill | □ Plug Back | □ Redrilling | □ Rework | ■ Stimulate | e |
| Well Type □ Brine Disposal □ CBM ■ Gas □ Oil □ | Secondary Reco | very Solution | Mining Sto | orage □ Otl | nor |
| | | | | nage 11 On | |
| Type of Completion ■ Single □ Multiple Fluids P | roduced Brine | ■Gas ■ N | GL 🗆 Oil | □ Other | 3 |
| Drilled with □ Cable ■ Rotary | | | | | |
| B.W. 14 B. C. C. L. C. | tarifica (b.a.) | 40.00 | | | |
| Drilling Media Surface hole ■ Air □ Mud □ Fresh | | ermediate hole | Air ■ Mud | □ Fresh W | ater Brine |
| Production hole ☐ Air ■ Mud ☐ Fresh Water ☐ I | Brine | | | | |
| Mud Type(s) and Additive(s) SBM 12.5ppg – powdered hydrocarbon resin, calcium carbonate | , ground almond hu | ls, barium sulfate, o | calcium chloride, | lecithin liquid, | organophilic clay, |
| polyaminated fatty acid, calcium hydroxide, polyimide surfact | ant, modified fatty a | cid, dimer.trimer f | atty acid, ground | d walnut hulls, | refined base oil. |
| -X.20.106 | | i de de de | | | e Shire Charles (eller |
| Date permit issued 11/20/2013 Date drilling of | commenced | 5/7/2014 | Date drilling of | eased8 | 3/20/2014 |
| Date completion activities began 1/1/2015 | Date comp | letion activities | ceased | 1/18/2015 | |
| Verbal plugging (Y/N) N Date permission gra | anted N | /A Gr | anted by | N/A | |
| | | | | | |
| Please note: Operator is required to submit a plugging ap | oplication within 5 | days of verbal p | permission to pl | lug | |
| Freshwater depth(s) ft 169,216,320,386,462,600,108 | 34 Open mine(| s) (Y/N) depths | | N | |
| Salt water depth(s) ft 1456 | | ountered (Y/N) | denths | N | |
| Coal depth(s) ft 1272,1312 | | ncountered (Y/N | | N | |
| Is coal being mined in area (Y/N) N | | | , == | | |

| WR-35 | | | | | | | | Page | _ of |
|-------------------|------------------------------|--------------------|--------------------|-------------------------|-------------------|--------------------|----------------|------------------------------|----------------|
| Rev. 8/23/13 | | | | | | | | 1 ugc | _ 01 |
| API 47- 017 | 06329 | Farm name_ | HEASTER, C | HARLES P., E | ET AL We | ll number51 | 3140 | | |
| CASING STRINGS | Hole Size | Casing Size | | w or Grade sed wt/ft | | Basket Depth(s) | | ent circulate e details b | |
| Conductor | 24" | 20" | 40' N | New 9 | 4lb/ft | N/A | | Y | |
| Surface | 17-1/2" | 13-3/8" | 1,215' | New 54 | .5lb/ft | N/A | | Υ | |
| Coal | | | | | | | 1 | | |
| Intermediate I | 12-3/8" | 9-5/8" | 5,255' N | New 4 | Olb/ft | N/A | | Υ | |
| Intermediate 2 | | | | - | | | 1 | | |
| Intermediate 3 | | | | | | | | | _ |
| Production | 8-1/2" | 5-1/2" 1 | 5,344' N | New 2 | Olb/ft | N/A | + | N | |
| Tubing | | | | | | | + | | |
| Packer type and d | epth set | | | I, | l | | | | |
| Comment Details | | | | | | | | | |
| CEMENT DATA | Class/Type of Cement | Number of Sacks | Slurry wt (ppg) | Yield (ft ³/sks) | Volume (ft.²_) | Ceme Top (M | | WO (hr | |
| Conductor | Class A | 38 | 15.6 | 1.18 | 44.84 | 1 0 | | | <u>3)</u> 8 |
| Surface | Class A | 975 | 15.6 | 1.18 | 1150 | 0 | - | | 8 |
| Coal | | | | | | | | | |
| Intermediate 1 | Class A 5050 POZ/Class A/Cla | »A 380/340/1115 | 14.2/15.6/15.6 | 1.28/1.18/1.18 | 2203 | 0 | | | 8 |
| Intermediate 2 | | | | | | | | _ | - |
| Intermediate 3 | | | | | | | | | |
| Production | Class A/Class H | 300/1065 | 14.2/15.2 | 1.26/1.97 | 2476 | 5,50 | | | |
| Tubing | | 333,133 | 11121012 | 1.20/1.0/ | 2410 | | - | | |
| Drillers TD (ft | | | | gers TD (ft) | | | | | |
| - | tion penetrated M | BICERIUS | Plug | g back to (ft) | | | | | |
| Plug back pro | cedure | | | | | | | | |
| Kick off depth | (ft) <u>5,286</u> | | | | | | | | |
| | | | | | | | | | |

| Kick off depth (ft) 5,286 | | | |
|---|---|--------------------|-------------------------------------|
| Check all wireline logs run | □ caliper □ density □ neutron □ resistivity | _ | n induction ■ temperature □sonic |
| Well cored □ Yes ■ No | □ Conventional □ Sidewal | ll Were cutting | ngs collected ■ Yes □ No |
| DESCRIBE THE CENTRALIZ Surface-Bowspring centralizer on shoo track and every 30 | ER PLACEMENT USED FOR I | EACH CASING STRING | Conductor- N/A |
| Intermediate-Bowspring centralizer on shoe track | | | |
| Production- Composite bodied centralizers on e | very joint from Shoe track up to 4,286' | | |
| WAS WELL COMPLETED AS | S SHOT HOLE Yes No | o DETAILS | |
| WAS WELL COMPLETED OP | PEN HOLE? | DETAILS | |
| WERE TRACERS USED O | es No TYPE OF TRA | CER(S) USED | |
| | | | |

| WR- | 35 |
|------|---------|
| Rev. | 8/23/13 |

| Page | of |
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| rage | UI |

| API | 47- 017 | 06329 | Farm name_ | HEASTER, CHARLES P., ET AL | _Well number_ | 513140 |
|-----|---------|-------|------------|----------------------------|---------------|--------|
|-----|---------|-------|------------|----------------------------|---------------|--------|

PERFORATION RECORD

| Stage No. | Perforation date | Perforated from MD ft. | Perforated to MD ft. | Number of Perforations | Formation(s) |
|--------------|------------------|------------------------|---------------------------------------|------------------------|---------------------|
| | | | | | Please See Attached |
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Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

| Stage No. | Stimulations Date | Ave Pump Rate (BPM) | Ave Treatment Pressure (PSI) | Max Breakdown Pressure (PSI) | ISIP (PSI) | Amount of Proppant (lbs) | Amount of Water (bbls) | Amount of Nitrogen/other (units) |
|--------------|----------------------|------------------------|---------------------------------|---------------------------------|------------|-----------------------------|------------------------|----------------------------------|
| | | | | | | Please | See | Attached |
| | | | | | | | | |
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Please insert additional pages as applicable.

| API 47- 017 | _ 06329 | Farn | n name_HEASTE | R, CHARL | ES P., ET | AL | Well | numbe | r_5131 | 40 |
|-------------------------|--------------------------------------|------------------------------|----------------------|-------------------------|-------------|----------|-------|----------------|--------|---|
| PRODUCING | FORMATION(| <u>S)</u> | DEPTHS | | | | | | | |
| Marcellus | | - | 6,598' | TVD | 7,037' | | MD | | | |
| | | | | | | | - | | | |
| Please insert ad | ditional pages a | s applicable. | - | _ | - | | | | | |
| GAS TEST | □ Build up □ | Drawdown | ■ Open Flow | | OIL TE | ST # Flo | w | ⊐ Pump |) | |
| SHUT-IN PRE | SSURE Surf | ace 1,995 | psi Botto | om Hole N | /A | _psi D | URA | TION (| OF TE | ST 208.5 hrs |
| OPEN FLOW | Gas 9,788 mcf | Oil od O | NGL bpd 48 | _ bpd | Water 559.7 | | | MEASU mated | | |
| LITHOLOGY/ FORMATION | TOP DEPTH IN FT NAME TVD 0 | BOTTOM DEPTH IN FT TVD | TOP DEPTH IN FT MD 0 | BOTTO DEPTH IN MD | FT DES | | | | | RD QUANTITYAND INE, OIL, GAS, H₂S, ETC |
| | | | 0 | | | | | | | |
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| | | | | 1-2-2- | | | | | | |
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| 1 | | | | | | | | | | |
| | ditional pages as | 222 | | | | | | | | |
| | ctor Savanna Dr mberloch Place Su | | City | Woodland | s | S | state | TX | Zip | 77380 |
| ogging Compa | Hoss Co. Se | rvices LLC | City | Charlestor | | | | 1007 | | 25242 |
| - | 7.5 | | City | | | s | tate | WV | _ Zip | 25312 |
| ddress PO BOX | | impletion & P | roduction Service | Dallas | | S | tate | TX | Zip | 75397-5682 |
| timulating Con | | | | | _ | | | | | |
| ddress 301 E 1 | | annlicable | City | Cisco | | S | tate | TX | Zip | 76437 |
| lease insert add | ипопаг рабес ас | | | | | | | | | |

Submittal of Hydraulic Fracturing Chemical Disclosure Information

| Formation Name | Final Top MD (ftGL) (ft) | Final Top TVD (ft) | Final Btm MD (ftGL) (ft) | Final Btm TVD (ft) |
|------------------|--------------------------|--------------------|--------------------------|--------------------|
| FRESH WATER ZONE | 1 | 1 | 1,084.00 | 1,084.00 |
| SAND/SHALE | 1,084.00 | 1,084.00 | 1,272.00 | 1,271.90 |
| COAL | 1,272.00 | 1,271.90 | 1,277.00 | 1,276.90 |
| SAND/SHALE | 1,277.00 | 1,276.90 | 1,312.00 | 1,311.90 |
| COAL | 1,312.00 | 1,311.90 | 1,318.00 | 1,317.90 |
| SAND/SHALE | 1,318.00 | 1,317.90 | 1,513.00 | 1,512.90 |
| MAXTON | 1,513.00 | 1,512.90 | 1,865.00 | 1,864.90 |
| BIG LIME | 1,865.00 | 1,864.90 | 1,923.00 | 1,922.90 |
| KEENER | 1,923.00 | 1,922.90 | 2,163.00 | 2,162.90 |
| WEIR | 2,163.00 | 2,162.90 | 2,358.00 | 2,357.90 |
| BEREA | 2,358.00 | 2,357.90 | 2,367.00 | 2,366.90 |
| GANTZ | 2,367.00 | 2,366.90 | 2,442.00 | 2,441.90 |
| FIFTY FOOT | 2,442.00 | 2,441.90 | 2,563.00 | 2,562.90 |
| THIRTY FOOT | 2,563.00 | 2,562.90 | 2,612.00 | 2,611.90 |
| GORDON | 2,612.00 | 2,611.90 | 2,710.00 | 2,709.90 |
| FOURTH SAND | 2,710.00 | 2,709.90 | 2,918.00 | 2,917.90 |
| BAYARD | 2,918.00 | 2,917.90 | 3,207.00 | 3,206.90 |
| WARREN | 3,207.00 | 3,206.90 | 3,293.00 | 3,292.90 |
| SPEECHLEY | 3,293.00 | 3,292.90 | 3,796.00 | 3,795.90 |
| BALLTOWN A | 3,796.00 | 3,795.90 | 4,424.00 | 4,423.70 |
| RILEY | 4,424.00 | 4,423.70 | 4,871.00 | 4,870.30 |
| BENSON | 4,871.00 | 4,870.30 | 5,122.00 | 5,120.80 |
| ALEXANDER | 5,122.00 | 5,120.80 | 6,681.00 | 6,401.50 |
| MIDDLE SEX | 6,681.00 | 6,401.50 | 6,760.00 | 6,453.50 |
| GENESSE | 6,760.00 | 6,453.50 | 6,868.00 | 6,517.00 |
| GENESO | 6,868.00 | 6,517.00 | 6,956.00 | 6,561.80 |
| TULLY | 6,956.00 | 6,561.80 | 7,007.00 | 6,585.30 |
| HAMILTON | 7,007.00 | 6,585.30 | 7,037.00 | 6,597.90 |
| MARCELLUS | 7,037.00 | 6,597.90 | 15,344.00 | 6,693.40 |

| 15,317.00 | 12/26/2014 1/1/2015 1/1/2015 1/1/2015 1/2/2015 1/2/2015 1/3/2015 1/3/2015 1/4/2015 1/4/2015 1/4/2015 1/5/2015 1/5/2015 1/5/2015 1/5/2015 1/5/2015 1/5/2015 1/5/2015 1/5/2015 1/5/2015 1/6/2015 1/6/2015 1/6/2015 1/7/2015 1/10/2015 1/10/2015 1/10/2015 1/10/2015 1/10/2015 1/11/2015 1/11/2015 1/12/2015 1/12/2015 1/13/2015 1/13/2015 1/13/2015 1/13/2015 1/14/2015 1/14/2015 1/14/2015 1/14/2015 1/14/2015 1/14/2015 1/14/2015 1/14/2015 1/14/2015 1/14/2015 1/14/2015 1/14/2015 1/14/2015 1/14/2015 1/14/2015 1/14/2015 1/14/2015 1/15/2015 1/15/2015 1/15/2015 1/15/2015 1/15/2015 1/15/2015 | 15,320.00 15,289.00 15,169.00 14,869.00 14,719.00 14,719.00 14,719.00 14,19.00 14,19.00 14,19.00 13,669.00 13,669.00 13,669.00 13,669.00 13,669.00 13,669.00 13,669.00 13,669.00 13,669.00 13,669.00 13,669.00 13,669.00 13,669.00 13,669.00 12,769.00 | 10 | |
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| 1/1/2015 15/19700 15/28900 1/1/2015 14/2015 14/2015 14/2015 14/2015 14/2015 14/2010 14/2010 14/2015 14/2010 14/2010 14/2015 14/2010 | 1/1/2015 1/1/2015 1/1/2015 1/2/2015 1/2/2015 1/2/2015 1/3/2015 1/3/2015 1/3/2015 1/4/2015 1/4/2015 1/4/2015 1/5/2015 1/5/2015 1/5/2015 1/5/2015 1/5/2015 1/6/2015 1/6/2015 1/6/2015 1/6/2015 1/6/2015 1/6/2015 1/6/2015 1/6/2015 1/10/2015 1/10/2015 1/10/2015 1/10/2015 1/10/2015 1/10/2015 1/11/2015 1 | 15,289.00 15,169.00 14,869.00 14,719.00 14,719.00 14,719.00 14,719.00 14,19.00 14,19.00 13,669.00 13,669.00 13,669.00 13,669.00 13,669.00 13,669.00 13,669.00 13,669.00 13,669.00 13,669.00 13,619.00 12,769.00 12,769.00 | | MARCELLUS |
| 1/1/2015 15,045,00 15,148,00 15,12015 17,12015 14,897,00 15,148,00 17,12015 14,897,00 14,897,00 14,897,00 14,897,00 14,897,00 14,897,00 14,897,00 14,897,00 14,897,00 14,897,00 14,897,00 14,897,00 14,897,00 14,897,00 14,1200 14,1 | 1/1/2015 1/2/2015 1/2/2015 1/3/2015 1/3/2015 1/4/2015 1/4/2015 1/4/2015 1/5/2015 1/5/2015 1/5/2015 1/5/2015 1/5/2015 1/6/2015 1/6/2015 1/6/2015 1/6/2015 1/6/2015 1/6/2015 1/6/2015 1/10/2015 1/10/2015 1/10/2015 1/10/2015 1/10/2015 1/10/2015 1/10/2015 1/11/2015 1/12/2015 1/12/2015 1/13/2015 1/13/2015 1/13/2015 1/13/2015 1/13/2015 1/13/2015 1/14/2015 1/14/2015 1/14/2015 1/14/2015 1/14/2015 1/14/2015 1/14/2015 1/14/2015 1/14/2015 1/14/2015 1/14/2015 1/14/2015 1/14/2015 1/14/2015 1/14/2015 1/15/2015 1/14/2015 1/14/2015 1/15/2015 | 15,169.00 15,019.00 14,869.00 14,719.00 14,719.00 14,719.00 14,719.00 14,719.00 13,969.00 13,669.00 13,519.00 13,519.00 13,069.00 13,069.00 12,769.00 12,769.00 | 32 | MARCELLUS |
| 1/2/2015 | 1/2/2015 1/3/2015 1/3/2015 1/3/2015 1/4/2015 1/4/2015 1/4/2015 1/4/2015 1/4/2015 1/5/2015 1/5/2015 1/5/2015 1/5/2015 1/5/2015 1/5/2015 1/6/2015 1/6/2015 1/7/2015 1/10/2015 1/10/2015 1/10/2015 1/10/2015 1/11/2015 1/11/2015 1/12/2015 1/12/2015 1/13/2015 1/13/2015 1/13/2015 1/13/2015 1/13/2015 1/13/2015 1/13/2015 1/14/2015 1/14/2015 1/14/2015 1/14/2015 1/15/2015 1/15/2015 1/15/2015 1/15/2015 1/15/2015 1/15/2015 1/15/2015 1/15/2015 1/15/2015 | 15,019.00 14,869.00 14,719.00 14,719.00 14,719.00 14,719.00 14,719.00 13,969.00 13,519.00 13,519.00 13,519.00 13,069.00 12,769.00 12,769.00 | 40 | MARCELLUS |
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| 1/4/2015 14,14700 14,269.00 14/4/2015 14,14700 14,1490 | 1/4/2015 1/4/2015 1/4/2015 1/4/2015 1/5/2015 1/5/2015 1/5/2015 1/5/2015 1/6/2015 1/6/2015 1/6/2015 1/6/2015 1/6/2015 1/10/2015 1/10/2015 1/10/2015 1/10/2015 1/10/2015 1/10/2015 1/11/2015 | 14,269.00 14,119.00 13,969.00 13,817.00 13,669.00 13,519.00 13,219.00 13,219.00 13,069.00 12,919.00 12,769.00 | 40 | MARCELLUS |
| 1/4/2015 13,997.00 14,119.00 14/4/2015 13,897.00 13,897.00 13,817.00 13,817.00 14,417.015 13,847.00 13,817.00 14,817.01 14,817.01 14,817.00 14,817.01 14,817.01 14,817.00 14,817.01 14,817.00 14,817.01 14,817.00 14,8 | 1/4/2015 1/4/2015 1/5/2015 1/5/2015 1/5/2015 1/5/2015 1/6/2015 1/6/2015 1/6/2015 1/6/2015 1/6/2015 1/6/2015 1/10/2015 1/10/2015 1/10/2015 1/10/2015 1/10/2015 1/10/2015 1/11/2015 | 14,119.00 13,969.00 13,817.00 13,669.00 13,519.00 13,219.00 13,219.00 13,069.00 12,919.00 12,619.00 | 40 | MARCELLUS |
| 1/4/2015 13,8700 13,969.00 15/5/2015 13,6700 13,680.00 15/5/2015 13,6700 13,680.00 13,610.00 15/5/2015 13,647.00 13,619.00 | 1/4/2015 1/5/2015 1/5/2015 1/5/2015 1/5/2015 1/6/2015 1/6/2015 1/6/2015 1/6/2015 1/6/2015 1/6/2015 1/10/2015 1/10/2015 1/10/2015 1/10/2015 1/10/2015 1/10/2015 1/10/2015 1/11/2015 | 13,969.00 13,817.00 13,669.00 13,519.00 13,219.00 13,219.00 12,919.00 12,919.00 12,769.00 | 40 | MARCELLUS |
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| 1/11/2015 11,289.00 11,395.00 1/11/2015 11,147.00 11,267.00 1/11/2015 10,997.00 11,119.00 1/12/2015 10,699.00 10,1119.00 1/12/2015 10,699.00 10,519.00 1/12/2015 10,699.00 10,519.00 1/12/2015 10,247.00 10,519.00 1/12/2015 10,247.00 10,219.00 1/13/2015 10,247.00 10,219.00 1/13/2015 9,947.00 10,219.00 1/13/2015 9,497.00 9,765.00 1/14/2015 9,497.00 9,765.00 1/14/2015 9,497.00 9,765.00 1/14/2015 9,497.00 9,469.00 1/14/2015 9,497.00 9,469.00 1/14/2015 9,497.00 9,469.00 1/15/2015 8,897.00 9,167.00 1/15/2015 8,747.00 8,869.00 1/15/2015 8,447.00 8,130.00 1/16/2015 7,997.00 8,119.00 1/16/2015 7,997.00 | 1/11/2015 1/11/2015 1/12/2015 1/12/2015 1/12/2015 1/12/2015 1/12/2015 1/12/2015 1/13/2015 1/13/2015 1/13/2015 1/13/2015 1/13/2015 1/14/2015 1/14/2015 1/15/2015 1/15/2015 1/15/2015 | 11,566.00 | 40 | MARCELLUS |
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| 1/12/2015 | 1/12/2015 1/12/2015 1/12/2015 1/12/2015 1/13/2015 1/13/2015 1/13/2015 1/14/2015 1/14/2015 1/15/2015 1/15/2015 1/15/2015 1/15/2015 | 11,119.00 | 40 | MARCELLUS |
| 1/12/2015 10,699,00 10,819,00 1/12/2015 10,547,00 10,669,00 1/12/2015 10,397,00 10,519,00 1/13/2015 10,247,00 10,369,00 1/13/2015 10,097,00 10,219,00 1/13/2015 9,947,00 9,919,00 1/13/2015 9,797,00 9,190,00 1/14/2015 9,497,00 9,469,00 1/14/2015 9,497,00 9,499,00 1/14/2015 9,497,00 9,469,00 1/14/2015 9,497,00 9,489,00 1/14/2015 9,497,00 9,489,00 1/14/2015 9,497,00 9,489,00 1/14/2015 9,497,00 9,489,00 1/15/2015 8,897,00 9,130,00 1/15/2015 8,747,00 8,869,00 1/15/2015 8,747,00 8,280,00 1/15/2015 8,297,00 8,419,00 1/15/2015 8,297,00 8,419,00 1/15/2015 8,297,00 8,250,00 1/15/2015 8,297,00 | 1/12/2015 1/12/2015 1/12/2015 1/13/2015 1/13/2015 1/13/2015 1/14/2015 1/14/2015 1/15/2015 1/15/2015 1/15/2015 1/15/2015 | 10,967.00 | 40 | MARCELLUS |
| 1/12/2015 10,547.00 10,669.00 1/12/2015 10,397.00 10,519.00 1/12/2015 10,247.00 10,519.00 1/13/2015 10,097.00 10,219.00 1/13/2015 9,947.00 10,067.00 1/13/2015 9,797.00 9,1910.00 1/13/2015 9,497.00 9,497.00 1/14/2015 9,497.00 9,497.00 1/14/2015 9,497.00 9,497.00 1/14/2015 9,497.00 9,497.00 1/14/2015 9,497.00 9,497.00 1/14/2015 9,497.00 9,1910.00 1/15/2015 8,897.00 9,107.00 1/15/2015 8,747.00 8,869.00 1/15/2015 8,747.00 8,290.00 1/15/2015 8,797.00 8,190.00 1/15/2015 8,297.00 8,290.00 1/15/2015 8,297.00 8,200.00 1/15/2015 8,297.00 8,200.00 1/15/2015 8,297.00 8,200.00 1/15/2015 7,997.00 <td< td=""><td>1/12/2015 1/12/2015 1/12/2015 1/13/2015 1/13/2015 1/13/2015 1/14/2015 1/14/2015 1/15/2015 1/15/2015 1/15/2015</td><td>10,819.00</td><td>40</td><td>MARCELLUS</td></td<> | 1/12/2015 1/12/2015 1/12/2015 1/13/2015 1/13/2015 1/13/2015 1/14/2015 1/14/2015 1/15/2015 1/15/2015 1/15/2015 | 10,819.00 | 40 | MARCELLUS |
| 1/12/2015 10,397.00 10,519.00 1/12/2015 10,247.00 10,369.00 1/13/2015 10,037.00 10,319.00 1/13/2015 9,947.00 10,667.00 1/13/2015 9,797.00 9,919.00 1/13/2015 9,497.00 9,519.00 1/14/2015 9,497.00 9,469.00 1/14/2015 9,497.00 9,469.00 1/14/2015 9,497.00 9,167.00 1/14/2015 8,897.00 9,177.00 1/15/2015 8,797.00 9,177.00 1/15/2015 8,747.00 8,869.00 1/15/2015 8,747.00 8,190.00 1/15/2015 8,747.00 8,269.00 1/15/2015 8,747.00 8,269.00 1/15/2015 8,747.00 8,269.00 1/15/2015 8,747.00 8,269.00 1/15/2015 8,747.00 8,269.00 1/15/2015 8,747.00 8,269.00 1/15/2015 8,747.00 8,269.00 1/15/2015 7,997.00 8,1 | 1/12/2015 1/12/2015 1/13/2015 1/13/2015 1/13/2015 1/14/2015 1/14/2015 1/14/2015 1/15/2015 1/15/2015 1/15/2015 | 10,669.00 | 40 | MARCELLUS |
| 1/12/2015 10,247.00 10,369.00 1/13/2015 10,097.00 10,219.00 1/13/2015 9,947.00 10,067.00 1/13/2015 9,947.00 9,919.00 1/14/2015 9,497.00 9,1919.00 1/14/2015 9,497.00 9,165.00 1/14/2015 9,497.00 9,469.00 1/14/2015 9,497.00 9,469.00 1/14/2015 9,497.00 9,167.00 1/14/2015 8,797.00 9,177.00 1/15/2015 8,797.00 9,177.00 1/15/2015 8,596.00 9,177.00 1/15/2015 8,497.00 8,190.00 1/15/2015 8,297.00 8,190.00 1/15/2015 8,747.00 8,269.00 1/15/2015 8,797.00 8,190.00 1/15/2015 8,747.00 8,269.00 1/15/2015 8,747.00 8,269.00 1/15/2015 8,747.00 8,269.00 1/15/2015 8,747.00 8,269.00 1/15/2015 7,947.00 8,19 | 1/12/2015 1/13/2015 1/13/2015 1/13/2015 1/14/2015 1/14/2015 1/14/2015 1/15/2015 1/15/2015 1/15/2015 | 10,519.00 | 40 | MARCELLUS |
| 1/13/2015 10,097.00 10,219.00 1/13/2015 9,947.00 10,067.00 1/13/2015 9,647.00 9,919.00 1/13/2015 9,647.00 9,919.00 1/14/2015 9,497.00 9,619.00 1/14/2015 9,497.00 9,619.00 1/14/2015 9,497.00 9,619.00 1/14/2015 9,497.00 9,619.00 1/15/2015 8,897.00 9,107.00 1/15/2015 8,797.00 8,869.00 1/15/2015 8,497.00 8,130.00 1/15/2015 8,296.00 8,110.00 1/15/2015 8,747.00 8,569.00 1/16/2015 8,747.00 8,190.00 1/16/2015 8,747.00 8,190.00 1/16/2015 7,997.00 8,119.00 1/17/2015 7,997.00 8,119.00 1/17/2015 7,997.00 8,119.00 1/17/2015 7,997.00 7,967.00 | 1/13/2015 1/13/2015 1/13/2015 1/13/2015 1/14/2015 1/14/2015 1/15/2015 1/15/2015 1/15/2015 | 10,369.00 | 40 | MARCELLUS |
| 1/13/2015 9,947.00 10,067.00 1/13/2015 9,797.00 9,919.00 1/13/2015 9,647.00 9,765.00 1/14/2015 9,497.00 9,619.00 1/14/2015 9,497.00 9,619.00 1/14/2015 9,197.00 9,469.00 1/15/2015 9,047.00 9,167.00 1/15/2015 8,897.00 9,177.00 1/15/2015 8,747.00 8,569.00 1/15/2015 8,447.00 8,190.00 1/16/2015 8,747.00 8,269.00 1/16/2015 8,747.00 8,190.00 1/16/2015 7,997.00 8,119.00 1/17/2015 7,997.00 8,119.00 1/17/2015 7,997.00 8,119.00 1/17/2015 7,997.00 7,967.00 | 1/13/2015 1/13/2015 1/13/2015 1/14/2015 1/14/2015 1/14/2015 1/15/2015 1/15/2015 1/15/2015 | 10,219.00 | 40 | MARCELLUS |
| 1/13/2015 9,797.00 9,919.00 1/13/2015 9,647.00 9,645.00 1/14/2015 9,497.00 9,619.00 1/14/2015 9,350.00 9,619.00 1/14/2015 9,350.00 9,469.00 1/15/2015 9,047.00 9,319.00 1/15/2015 8,897.00 9,107.00 1/15/2015 8,747.00 8,569.00 1/15/2015 8,447.00 8,190.00 1/16/2015 8,147.00 8,190.00 1/16/2015 8,147.00 8,190.00 1/16/2015 7,997.00 8,119.00 1/17/2015 7,997.00 8,119.00 1/17/2015 7,997.00 8,119.00 1/17/2015 7,997.00 7,967.00 | 1/13/2015 1/13/2015 1/14/2015 1/14/2015 1/14/2015 1/15/2015 1/15/2015 1/15/2015 | 10,067.00 | 40 | MARCELLUS |
| 1/13/2015 9,647.00 9,755.00 1/14/2015 9,497.00 9,619.00 1/14/2015 9,350.00 9,469.00 1/14/2015 9,197.00 9,499.00 1/15/2015 9,047.00 9,167.00 1/15/2015 8,897.00 9,017.00 1/15/2015 8,747.00 8,869.00 1/15/2015 8,747.00 8,177.00 1/15/2015 8,447.00 8,199.00 1/16/2015 8,297.00 8,199.00 1/16/2015 8,297.00 8,199.00 1/16/2015 8,297.00 8,269.00 1/16/2015 8,297.00 8,199.00 1/16/2015 8,297.00 8,199.00 1/16/2015 7,997.00 8,119.00 1/16/2015 7,997.00 7,967.00 | 1/13/2015 1/14/2015 1/14/2015 1/14/2015 1/15/2015 1/15/2015 1/15/2015 | 9,919.00 | 40 | MARCELLUS |
| 1/14/2015 9,497.00 9,619.00 1/14/2015 9,350.00 9,469.00 1/14/2015 9,197.00 9,319.00 1/15/2015 9,047.00 9,167.00 1/15/2015 8,897.00 9,017.00 1/15/2015 8,747.00 8,869.00 1/15/2015 8,747.00 8,596.00 1/15/2015 8,447.00 8,596.00 1/16/2015 8,447.00 8,590.00 1/16/2015 8,147.00 8,190.00 1/16/2015 8,147.00 8,190.00 1/16/2015 7,997.00 8,119.00 1/17/2015 7,997.00 7,967.00 1/17/2015 7,547.00 7,817.00 | 1/14/2015 1/14/2015 1/14/2015 1/15/2015 1/15/2015 1/15/2015 | 9.765.00 | 40 | MARCELLIS |
| 1/14/2015 9,350.00 9,469.00 1/14/2015 9,197.00 9,319.00 1/15/2015 9,047.00 9,167.00 1/15/2015 8,897.00 9,017.00 1/15/2015 8,747.00 8,869.00 1/15/2015 8,747.00 8,869.00 1/15/2015 8,447.00 8,717.00 1/16/2015 8,447.00 8,596.00 1/16/2015 8,147.00 8,297.00 1/16/2015 8,147.00 8,199.00 1/16/2015 7,997.00 8,119.00 1/17/2015 7,847.00 7,847.00 1/17/2015 7,547.00 7,817.00 | 1/14/2015 1/14/2015 1/15/2015 1/15/2015 1/15/2015 | 9,619.00 | 40 | MARCELLIS |
| 1/14/2015 9,197.00 9,319.00 1/15/2015 9,047.00 9,167.00 1/15/2015 8,897.00 9,017.00 1/15/2015 8,747.00 8,869.00 1/15/2015 8,747.00 8,717.00 1/15/2015 8,447.00 8,590.00 1/16/2015 8,447.00 8,499.00 1/16/2015 8,147.00 8,190.00 1/16/2015 7,997.00 8,119.00 1/17/2015 7,847.00 7,967.00 1/17/2015 7,547.00 7,547.00 | 1/14/2015 1/15/2015 1/15/2015 1/15/2015 | 9,469.00 | 40 | MARCELLIS |
| 1/15/2015 9,047.00 9,171.00 1/15/2015 8,897.00 9,017.00 1/15/2015 8,747.00 8,896.00 1/15/2015 8,747.00 8,717.00 1/15/2015 8,447.00 8,190.00 1/16/2015 8,147.00 8,190.00 1/16/2015 7,997.00 8,119.00 1/16/2015 7,847.00 7,967.00 1/17/2015 7,547.00 7,817.00 1/17/2015 7,547.00 7,677.00 1/17/2015 7,547.00 7,677.00 1/17/2015 7,547.00 7,677.00 1/17/2015 7,547.00 7,677.00 1/17/2015 7,547.00 7,677.00 1/17/2015 7,547.00 7,677.00 1/17/2015 7,547.00 7,677.00 1/17/2015 7,547.00 7,677.00 1/17/2015 7,547.00 7,677.00 1/17/2015 7,547.00 7,677.00 1/17/2015 7,547.00 7,677.00 1/17/2015 7,547.00 7,677.00 1/17/2015 7,647.00 7,677.00 1/17/2015 7,647.00 7,677.00 1/17/2015 7,647.00 7,677.00 1/17/2015 7,647.00 7,677.00 1/17/2015 7,647.00 7,677.00 1/17/2015 7,647.00 7,677.00 1/17/2015 7,647.00 7,677.00 1/17/2015 7,647.00 7,677.00 1/17/2015 7,647.00 7,677.00 1/17/2015 7,647.00 7,677.00 1/17/2015 7,647.00 7,677.00 1/17/2015 7,647.00 7,647 | 1/15/2015 1/15/2015 1/15/2015 1/15/2015 | 931900 | 00 | MAADCELLIC |
| 1/15/2015 | 1/15/2015 1/15/2015 1/15/2015 1/15/2015 | 00.016,0 | 0.00 | MARCELLUS |
| 1/15/2015 | 1/15/2015 | 00.701,6 | 04 | MAKCELLUS |
| 1/15/2015 8,747,00 8,893,00 1/15/2015 8,596,00 8,717.00 1/15/2015 8,747,00 8,569.00 8,717.00 1/16/2015 8,747,00 8,149.00 1/16/2015 8,147.00 8,149.00 1/16/2015 7,997,00 8,199.00 1/17/2015 7,847,00 7,967.00 1/17/2015 7,547,00 7,607.00 1/17/2015 7,547,00 7,607.00 1/17/2015 7,547,00 7,607.00 1/17/2015 7,547,00 7,607.00 1/17/2015 7,547,00 7,607.00 1/17/2015 7,547,00 7,607.00 1/17/2015 7,547,00 7,607.00 1/17/2015 7,547,00 7,607.00 1/17/2015 7,547,00 7,607.00 1/17/2015 7,547,00 7,607.00 1/17/2015 7,547,00 7,607.00 1/17/2015 7,547,00 7,607.00 1/17/2015 7,547.00 7,607.00 1/17/2015 7,547.00 7,607.00 1/17/2015 7,547.00 7,607.00 1/17/2015 7,547.00 7,607.00 1/17/2015 7,547.00 7,607.00 1/17/2015 7,547.00 7,607.00 1/17/2015 7,547.00 7,607.00 1/17/2015 7,60 | 1/15/2015 | 0,710,6 | 04 5 | MARCELLUS |
| 1/15/2015 8,596,00 8,717.00 1/15/2015 8,447.00 8,569.00 1/16/2015 8,297.00 8,419.00 1/16/2015 8,147.00 8,269.00 1/16/2015 7,997.00 8,119.00 1/17/2015 7,847.00 7,967.00 1/17/2015 7,547.00 7,817.00 | 511/51/ | 8,869.00 | 40 | MARCELLUS |
| 1/15/2015 | 1/13/2013 | 8,717.00 | 40 | MARCELLUS |
| 1/16/2015 | 1/15/2015 | 8,569.00 | 40 | MARCELLUS |
| 1/16/2015 8,147.00 8,269.00 1/16/2015 7,997.00 8,119.00 1/17/2015 7,847.00 7,967.00 1/17/2015 7,597.00 7,567.00 7,697.00 | 1/16/2015 | 8,419.00 | 40 | MARCELLUS |
| 1/16/2015 7,997.00 8,119.00 | 1/16/2015 | 8,269.00 | 40 | MARCELLUS |
| 1/17/2015 7,847.00 7,967.00 1/17/2015 7,697.00 7,817.00 1/17/2015 7,547.00 7,607.00 | 1/16/2015 | 8,119.00 | 40 | MARCELLUS |
| 1/17/2015 7,697.00 7,817.00 1/17/2015 7,547.00 7,667.00 | 1/17/2015 | 7,967.00 | 40 | MARCELLUS |
| 1/17/2015 7,547.00 7,667.00 | 1/17/2015 | 7,817.00 | 40 | MARCELLUS |
| 200101 | 1/17/2015 | 7,667.00 | 40 | MARCELLUS |
| 1/17/2015 7,397.00 7,519.00 | 53 1/17/2015 7,397.00 | 7,519.00 | 40 | MARCELLUS |

| CHANAL CHANALON < | Stage Number | Stimulation | Ave Pump Rate | Ave Treatment | Max Breakdown | (ISIP (PSI) | Amount of Proppant | Amount of Water | Amount of |
|--|-----------------|-------------|---------------|----------------|----------------|-------------|--------------------|-----------------|------------------------|
| 1/1/2012 81.1 6.46.10 8.98.50 3.98.60 2.98.60 | ifiation Sloove | 1/1/2015 | (BP/M) | Pressure (PSI) | Pressure (PSI) | 6.150.00 | (lbs) | (bbls) | Nitrogen/other (units) |
| 1//2015 84.18 8.48.20 8.78.70 4.77.30 28.938700 6.63.24 1//2015 83.31 8.655100 8.78.60 4.28.20 2.58.93750 6.78.20 1//2015 83.3 8.655100 8.78.60 4.28.20 6.60.60 6.20.21 1//2015 83.3 8.663100 8.78.60 4.25.20 6.70.20 6.70.20 1//2015 83.2 8.60.80 8.78.60 4.25.20 6.20.20 6.70.20 1//2015 82.3 8.60.80 8.78.60 2.70.20 6.60.70 6.20.20 1//2015 82.3 8.20.80 8.70.80 2.70.20 2.20.20 6.60.70 1//2015 8.2 8.20.80 9.20.40 2.70.20 2.20.20 8.20.70 1//2015 8.2 8.20.80 9.20.40 2.70.20 2.20.20 8.20.70 1//2015 8.2 8.20.80 9.20.40 2.70.20 2.20.20 8.20.70 1//2015 8.2 8.20.80 9.20.40 2.20.20 <td>1</td> <td>1/1/2015</td> <td>81.1</td> <td>8,481.00</td> <td>8.843.00</td> <td>3.866.00</td> <td>250.752.00</td> <td>1003</td> <td>0 0</td> | 1 | 1/1/2015 | 81.1 | 8,481.00 | 8.843.00 | 3.866.00 | 250.752.00 | 1003 | 0 0 |
| 1/2/2015 83 8,655.00 8,755.00 2,322.00 253,125.00 6225 1/2/2015 83 8,655.00 8,755.00 2,424.00 2,523.25.00 6225 1/2/2015 63 6,004.00 8,755.00 4,246.00 2,523.25.00 6221 1/2/2015 63 6,004.00 8,755.00 4,246.00 2,523.25.00 6221 1/2/2015 63 8,651.00 2,709.00 2,009.00 | 2 | 1/1/2015 | 81.8 | 8,482.00 | 8,747.00 | 4,773.00 | 250,839.00 | 6324 | 0 0 |
| 1/12/2015 88.31 8.650.00 8.789.00 24.315.00 26.325.40 0 23.254.00 26.325.40 0 27.20 17.70 17.70 17.70 6.00 0 27.20 17.70 17.70 17.70 17.70 17.70 17.70 2.70 0 27.20 17.70 17.70 17.70 2.70 0 27.20 17.70 17.70 2.70 0 27.20 17.70 17.70 2.70 0 27.20 17.70 17.70 2.70 0 27.20 17.70 17.70 2.70 27.20 0 17.70 17.70 2.70 27.20 0 17.70 17.70 2.70 27.20 0 17.70 17.70 27.70 27.20 0 17.70 17.70 27.70 27.20 0 27.20 0 17.70 27.20 0 17.70 27.20 0 17.70 27.20 0 17.70 17.70 27.20 0 17.70 27.20 0 17.70 | 3 | 1/2/2015 | 84.9 | 8,655.00 | 8,892.00 | 4,382.00 | 250,907.00 | 6280 | 0 |
| 1/1/2015 83.5 8.66.0 8.74.0 8.75.0 0.00 2324.0 17.75 1/1/2015 8.87 8.87.0 8.87.0 2.60.0 20.0 20.0 20.0 1/1/2015 8.87 8.87.0 8.87.0 2.60.0 20.0 20.0 1/1/2015 8.87 8.87.0 8.87.0 2.60.0 20.0 20.0 1/1/2015 8.83 8.83 8.83 8.83 8.83 8.83 8.83 1/1/2015 8.83 <td>4</td> <td>1/2/2015</td> <td>83.1</td> <td>8,551.00</td> <td>8,756.00</td> <td>4,224.00</td> <td>253,125.00</td> <td>6225</td> <td>0</td> | 4 | 1/2/2015 | 83.1 | 8,551.00 | 8,756.00 | 4,224.00 | 253,125.00 | 6225 | 0 |
| 1/4/2015 6,69 6,004,00 8,641,00 6,004 2124 1/4/2015 8,63 8,641,00 9,001 2,27,280 6,004 6,004 1/4/2015 88.73 8,541,00 9,001 2,27,280 6,004 6,004 1/4/2015 88.23 8,541,00 9,001 2,27,280 6,004 6,004 1/4/2015 88.23 8,541,00 9,001 2,27,280 6,004 6,004 1/4/2015 88.23 8,586,00 9,011,00 5,211,00 2,521,02 6,001 1/4/2015 88.24 8,856,00 9,411,00 4,422,00 2,342,00 6,601 1/4/2015 88.25 8,856,00 9,411,00 4,422,00 2,342,00 6,601 1/4/2015 88.25 8,826,00 9,411 8,722,00 6,402,00 2,402,00 1/4/2015 88.25 8,826,00 9,414 8,722,00 6,402,00 2,402,00 2,402,00 1/4/2015 88.25 8,402,00 2,402,00 2, | 2 | 1/2/2015 | 83.5 | 8,603.00 | 8,749.00 | 4,436.00 | 235,854.00 | 9229 | 0 |
| 1/4/2015 88.7 8,37.5 8,37.1 8,37.5 8,37.1 8,37.5 8,37.1 8,37.1 8,37.1 8,37.1 8,37.1 8,37.1 8,37.1 8,37.1 8,37.1 8,37.1 8,37.1 8,37.1 8,37.1 8,37.1 9,37.2 9,37.2< | 5.01 | 1/3/2015 | 6.9 | 6,004.00 | 8,691.00 | 5,009.00 | 0.00 | 2124 | 0 |
| 1/4/2015 80.8 8,877.00 9,004.00 5,700.00 24,025.00 2,500.00 2,600.00 1/4/2015 81.3 8,847.00 8,700.00 4,700.00 23,510.00 25,510.00 23,510.00 <td< td=""><td>9 1</td><td>1/3/2015</td><td>85.7</td><td>8,375.00</td><td>8,561.00</td><td>4,273.00</td><td>252,298.00</td><td>6201</td><td>0</td></td<> | 9 1 | 1/3/2015 | 85.7 | 8,375.00 | 8,561.00 | 4,273.00 | 252,298.00 | 6201 | 0 |
| 14/2015 84.3 8,539.00 8,738.00 4,242.01 25,510.00 5,510.00 5,510.00 25,510.00 5,517.00 5,539.00 1,4/2015 1,4/2015 8,539.00 1,4/2015 8,539.00 1,4/2015 8,539.00 1,4/2015 8,539.00 1,5/2015 8,539.00 1,5/2015 8,539.00 1,5/2015 8,539.00 1,5/2015 8,539.00 1,5/2015 8,539.00 1,5/2015 8,539.00 1,5/2015 8,539.00 1,5/2015 8,539.00 1,5/2015 8,539.00 1,5/2015 1,5/2016 <t< td=""><td>,</td><td>1/3/2015</td><td>80.8</td><td>8,671.00</td><td>9,041.00</td><td>5,709.00</td><td>249,628.00</td><td>9694</td><td>0</td></t<> | , | 1/3/2015 | 80.8 | 8,671.00 | 9,041.00 | 5,709.00 | 249,628.00 | 9694 | 0 |
| 1/4/2015 8.42 8.424500 9/04-000 4,43200 4,43200 4,43200 4,43200 4,43200 4,43200 4,43200 4,43200 4,43200 4,43200 4,43200 4,43200 4,43200 1,43200 <t< td=""><td>× 0</td><td>1/4/2015</td><td>84.3</td><td>8,398.00</td><td>8,783.00</td><td>4,452.00</td><td>225,102.00</td><td>6267</td><td>0</td></t<> | × 0 | 1/4/2015 | 84.3 | 8,398.00 | 8,783.00 | 4,452.00 | 225,102.00 | 6267 | 0 |
| 1/4/2015 81.7 8,555.00 9,137.00 4,355.00 185.978.00 185.978.00 185.978.00 187.000 187. | 100 | 1/4/2015 | 91.7 | 0,515.00 | 9,044.00 | 4,828.00 | 231,856.00 | 5925 | 0 |
| 1/17/2015 86.5 8,280.00 8,888.00 4,985.00 283,730.00 62011 1/17/2015 86.5 8,430.00 8,868.00 5,455.00 283,730.00 62011 1/17/2015 86.5 8,430.00 8,868.00 5,455.00 283,830.00 66011 1/17/2015 92.5 8,280.00 2,576.00 2,52,880.00 6655 1/17/2015 92.5 8,280.00 2,576.00 2,52,880.00 6655 1/17/2015 92.5 8,280.00 8,820.00 5,430.00 2,52,880.00 6655 1/17/2015 92.5 8,280.00 8,820.00 5,430.00 2,52,880.00 6655 1/17/2015 92.5 8,330.00 8,820.00 5,430.00 2,50,820.00 6655 1/17/2015 94.2 8,530.00 8,820.00 5,430.00 2,50,820.00 6655 1/17/2015 94.2 8,530.00 8,820.00 5,430.00 2,50,820.00 6655 1/17/2015 94.2 8,530.00 8,820.00 5,430.00 2,50,820.00 6655 1/17/2015 94.2 8,530.00 8,820.00 5,430.00 2,50,820.00 6655 1/17/2015 95.6 8,230.00 8,820.00 5,430.00 2,50,820.00 6655 1/17/2015 94.2 8,530.00 8,820.00 5,430.00 2,50,820.00 6655 1/17/2015 95.6 8,230.00 8,820.00 5,430.00 2,50,920.00 6655 1/17/2015 94.2 8,530.00 8,820.00 5,430.00 2,50,920.00 6655 1/17/2015 94.5 8,330.00 8,820.00 5,430.00 2,50,920.00 6655 1/17/2015 94.5 8,320.00 8,830.00 5,430.00 2,50,920.00 6655 1/17/2015 94.5 8,320.00 8,830.00 5,430.00 2,50,920.00 6655 1/17/2015 94.5 8,320.00 8,830.00 5,430.00 2,50,920.00 6655 1/17/2015 94.5 8,320.00 8,830.00 5,430.00 2,50,920.00 6655 1/17/2015 94.5 8,430.00 8,830.00 5,430.00 2,50,920.00 6011 1/17/2015 94.5 8,430.00 8,830.00 5,430.00 2,50,920.00 6011 1/17/2015 94.5 8,130.00 8,830.00 5,430.00 2,50,920.00 6011 1/17/2015 94.5 8,130.00 8,830.00 2,430.00 2,50,920.00 6011 1/17/2015 94.5 8,130.00 8,130.00 4,430.00 2,50,920.00 2,50,920.00 2,50,920.00 1/17/2015 94.5 8,130.00 8,130.00 4,430.00 2,50,920.00 2,50,920.00 2,50,920.00 | 11 | 1/5/2015 | 91.7 | 0.555.00 | 9,117,00 | 9,311.00 | 190,251.00 | 2581 | 0 |
| 1/4/2015 84.9 8,435.00 8,468.00 5,478.00 24,470.00 2 | 2 | 1/5/2013 | 001./ | 00.505.0 | 9,137.00 | 4,393.00 | 185,978.00 | 5891 | 0 |
| 1/17/2015 86.5 8.425.00 9,279.00 6,270.00 6,003 1/16/2015 86.5 8,425.00 9,278.00 20,20,20.00 608.3 1/16/2015 91.3 8,102.00 7,155.00 5,000.00 608.3 1/16/2015 91.3 8,102.00 7,155.00 5,000.00 608.3 1/16/2015 92.5 8,209.00 8,490.20 20.00 608.3 1/16/2015 96.6 8,290.00 8,490.20 20.00 608.3 1/16/2015 96.7 8,200.00 8,490.20 20.00 608.3 1/16/2015 96.6 8,290.00 8,490.20 2,125.00 5,200.00 608.3 1/16/2015 96.7 8,500.00 8,490.00 5,110.00 608.3 608.3 1/16/2015 96.2 8,500.00 8,510.00 2,510.00 5,500.00 6,500.00 6,500.00 6,500.00 6,500.00 6,500.00 6,500.00 6,500.00 6,500.00 6,500.00 6,500.00 6,500.00 6,500.00 | 13 12 | 1/5/2015 | 94.0 | 0,300.00 | 0,883.00 | 4,965.00 | 228,720.00 | 6201 | 0 |
| 1/6/2015 83.3 8.582000 9.59400 5.76700 5.99400 5.76700 6832 1/6/2015 9.1 8.510200 9.59400 2.000 1652 8.89400 6.576700 6652 6.89500 6.93500 6.611 6.835 6.611 6.835 6.611 6.835 6.611 6.835 6.611 6.835 6.611 6.835 6.611 6.835 6.611 6.611 6.835 6.611 6.835 6.611 6.835 6.611 6.835 6.611 6.835 6.612 6.835 6 | 14 | 1/6/2015 | 2,50 | 8 425 00 | 0,000,00 | 0,133.00 | 254,309.00 | 6001 | 0 0 |
| 1/6/2015 9.1 5,022.00 7,025.00 6,025.00 6,025.00 6,025.00 1,020.00 6,025.00 1,020.00 6,025.00 1,020.00 6,025.00 1,020.00 6,025.00 1,020.00 6,025.00 1,020.00 6,025.00 6,025.00 6,025.00 6,025.00 6,025.00 6,025.00 1,020.00 6,025.00 6,025.00 6,025.00 6,025.00 1,020.00 6,025.00 6,025.00 6,025.00 1,020.00 6,025.00 6,025.00 6,025.00 1,020.00 6,025.00 6,025.00 6,025.00 6,025.00 6,025.00 6,025.00 6,025.00 6,025.00 1,020.00 6,025.00 | 15 | 1/6/2015 | 83.3 | 8 580.00 | 9 394 00 | 00.720,2 | 00.069.062 | 5974 | |
| 1///2015 92.5 8,209.00 8,322.00 25,287.00 6522.00 6522.00 6,222.00 | 15.01 | 1/6/2015 | 9.1 | 5 102 00 | 7 153 00 | 5 302 00 | 00.0250.00 | 1633 | 0 0 |
| 1/1/2015 9.67 8.250.00 8.949.00 2.949.00 <th< td=""><td>16</td><td>1/7/2015</td><td>97.5</td><td>8 209 00</td><td>00.001,7</td><td>4 902.00</td><td>00.00 000</td><td>7077</td><td>0 0</td></th<> | 16 | 1/7/2015 | 97.5 | 8 209 00 | 00.001,7 | 4 902.00 | 00.00 000 | 7077 | 0 0 |
| 1/1/2015 9.32 8.573.00 9.335.00 5.573.00 6.935.00 <th< td=""><td>17</td><td>1/7/2015</td><td>96.6</td><td>8 592 00</td><td>8 949 00</td><td>4,902.00</td><td>252,987.00</td><td>0000</td><td>0</td></th<> | 17 | 1/7/2015 | 96.6 | 8 592 00 | 8 949 00 | 4,902.00 | 252,987.00 | 0000 | 0 |
| 1/8/2015 96.5 8,730.00 6,868.00 5,143.00 256,722.00 6326 1/9/2015 92.5 8,373.00 8,868.00 5,143.00 256,136.00 7056 1/9/2015 92.5 8,593.00 8,613.00 250,136.00 7056 1/9/2015 92.2 8,593.00 8,613.00 250,138.00 5669 1/10/2015 92.4 8,593.00 8,613.00 25,147.00 256,938.00 5669 1/10/2015 92.1 8,539.00 8,613.00 25,147.00 5669 6699 1/10/2015 92.1 8,539.00 8,613.00 25,147.00 26,947.00 6699 1/11/2015 91.1 8,435.00 8,613.00 25,145.00 25,143.00 6699 1/11/2015 91.2 8,539.00 8,613.00 25,143.00 6699 6699 1/11/2015 91.2 8,435.00 8,617.00 25,143.00 6699 26,013.00 6699 1/11/2015 91.2 8,231.00 8,617.00 25,14 | 18 | 1/7/2015 | 92.1 | 8.575.00 | 9.035.00 | 5 167 00 | 252 528 00 | 5005 | 0 0 |
| 1/9/2015 9.2.5 8,332.00 8,688.00 5,157.00 250,252.00 7020 1/9/2015 94.2 8,332.00 8,688.00 5,127.00 250,786.00 5723 1/9/2015 96.2 8,393.00 8,510.00 25,274.00 256,938.00 5723 1/9/2015 92 8,393.00 8,510.00 2,244.00 269,477.00 6069 1/10/2015 93 8,395.00 8,513.00 2,948.80 6699 1/10/2015 91.5 8,452.00 8,513.00 2,948.80 6699 1/11/2015 91.5 8,455.00 8,531.00 2,545.00 241,209.00 6693 1/11/2015 81.5 8,455.00 8,541.00 5,276.00 26,343.00 6693 1/11/2015 81.5 8,455.00 8,541.00 2,545.00 244,345.00 6698 1/11/2015 81.5 8,455.00 8,541.00 2,545.00 26,143.80 6698 1/11/2015 81.2 8,200.00 8,511.00 2,545.00 | 19 | 1/8/2015 | 96.5 | 8.730.00 | 8 868 00 | 5 143 00 | 250.822.00 | 6376 | 0 0 |
| 1/9/2015 94.2 8,503.00 8,510.00 5,401.00 5,503.00 5,733 1/9/2015 96.2 8,563.00 8,613.00 5,204.00 5,609 5,733 1/10/2015 90.6 8,866.00 8,513.00 2,517.00 266.93 5,733 1/10/2015 91.2 8,856.00 9,513.00 5,217.00 266.93 666.93 1/10/2015 91.2 8,533.00 8,643.00 5,217.00 266.93 666.93 1/11/2015 87.6 8,531.00 2,943.00 5,217.00 244,346.00 6710 1/11/2015 87.6 8,531.00 2,217.00 244,346.00 6710 1/11/2015 87.6 8,531.00 2,546.00 250,586.00 6710 1/11/2015 91.2 8,244.00 8,514.00 4,764.00 250,586.00 6718 1/11/2015 91.2 8,244.00 8,514.00 4,764.00 250,586.00 6718 1/11/2015 91.2 8,244.00 8,443.00 8,443.00 8, | 20 | 1/9/2015 | 92.5 | 8.332.00 | 8 683 00 | 5 157 00 | 250,872.00 | 7050 | 0 0 |
| 1/10/2015 96.2 8,556.00 5,274.00 249,477.00 5609 1/10/2015 90.6 8,566.00 8,613.00 5,137.00 249,477.00 5609 1/10/2015 90.6 8,566.00 8,613.00 5,137.00 249,613.00 6609 1/10/2015 91.5 8,836.00 8,643.00 5,213.00 249,610.00 6699 1/11/2015 91.5 8,845.00 8,536.00 249,645.00 6524 1/11/2015 87.6 8,345.00 4,117.00 552.00 6682 1/11/2015 87.6 8,345.00 8,345.00 5,256.00 56.958.00 1/11/2015 87.6 8,344.00 8,450.00 5,276.00 550.60 1/11/2015 91.4 8,244.00 8,510.00 4,987.00 550.60 6028 1/11/2015 91.4 8,244.00 8,510.00 250,586.00 607.8 1/11/2015 91.4 8,244.00 8,510.00 250,586.00 563.8 1/12/2015 91.00 8, | 21 | 1/9/2015 | 94.2 | 8.503.00 | 8 910 00 | 5 401 00 | 250 998 00 | 5773 | |
| 1/10/2015 906 8,566.00 8,131.00 250,718.00 260,738.00 6669 1/10/2015 92 8,539.00 9,035.00 250,718.00 6669 6669 1/10/2015 91 8,539.00 9,035.00 220,718.00 6669 6669 1/11/2015 91.5 8,539.00 9,035.00 249,430.00 559.2 710 1/11/2015 91.5 8,436.00 8,954.00 24,346.00 6603 710 1/11/2015 91.7 8,340.00 8,540.00 250,580.00 6603 710 1/11/2015 91.0 8,340.00 8,540.00 5,256.00 24,346.00 6703 1/11/2015 91.0 8,340.00 8,540.00 5,260.00 260.03 6603 1/11/2015 91.0 8,340.00 8,540.00 5,450.00 5,633.00 6603 1/11/2015 91.0 8,340.00 8,540.00 250,630.00 6603 670 1/11/2015 91.0 1,430.00 2,430.00 | 22 | 1/9/2015 | 96.2 | 8 503.00 | 8 656 00 | 5 274 00 | 249 477 00 | 57/5 | |
| 1/10/2015 92 8,539.00 9,035.00 2,49,483.00 6659 1/10/2015 93.1 8,452.00 8,843.00 5,385.00 249,483.00 5524 1/11/2015 91.5 8,452.00 8,843.00 5,385.00 249,483.00 5524 1/11/2015 81.8 8,350.00 8,916.00 5,266.00 243,346.00 6603 1/11/2015 84.8 8,050.00 8,916.00 5,266.00 243,346.00 6603 1/11/2015 91.4 8,050.00 8,516.00 250,581.00 6603 1/11/2015 91.4 8,050.00 8,456.00 5,586.00 56038 1/11/2015 91.4 8,050.00 8,410.00 5,266.00 56038 1/11/2015 91.4 8,050.00 8,410.00 5,266.00 250,586.00 66038 1/11/2015 91.4 8,100.00 8,410.00 8,410.00 5,276.00 550,586.00 66038 1/11/2015 91.4 8,100.00 8,410.00 8,460.00 5,540.00 | 23 | 1/10/2015 | 90.6 | 8.366.00 | 8.613.00 | 5 197 00 | 250 718 00 | 6069 | 2 0 |
| 1/10/2015 93.1 8/452.00 8,843.00 5,385.00 249,463.00 5524 1/11/2015 91.5 8,485.00 8,954.00 4,193.00 241,209.00 5592 1/11/2015 87.6 8,331.00 9,341.00 241,360 6022 1/11/2015 84.8 8,050.00 8,914.00 247,346.00 5688 1/11/2015 91.7 8,334.00 8,515.00 247,340.00 5,688 1/11/2015 91.9 8,344.00 8,576.00 250,360.00 5688 1/12/2015 91.9 7,785.00 8,670.00 250,360.00 5603 1/12/2015 91.9 7,785.00 8,670.00 250,360.00 5603 1/13/2015 91.0 7,785.00 8,670.00 251,345.00 6078 1/13/2015 91.0 8,180.00 8,740.00 251,345.00 6078 1/13/2015 91.0 8,180.00 8,740.00 251,440.00 250,450.00 574 1/13/2015 95.6 8,180.00 8 | 24 | 1/10/2015 | 92 | 8,539.00 | 9,035.00 | 5,211.00 | 249.801.00 | 6909 | 0 0 |
| 1/11/2015 91.5 8/436.00 8,954.00 4,193.00 241,209.00 5526.00 241,209.00 5526.00 241,209.00 5526.00 241,346.00 6710 1/11/2015 87.5 8,331.00 8,941.00 5,256.00 250,631.00 6633 1/11/2015 93.4 8,050.00 8,650.00 25,456.00 250,033.00 5633 1/12/2015 93.4 8,208.00 8,531.00 4,764.00 250,033.00 5633 1/12/2015 93.4 8,208.00 8,410.00 250,681.00 5633 1/12/2015 93.6 7,785.00 8,410.00 250,681.00 5633 1/12/2015 93.6 8,135.00 8,410.00 250,681.00 5633 1/13/2015 99.9 8,135.00 8,710.00 250,681.00 5735 1/13/2015 95.6 8,135.00 8,740.00 250,483.00 5635 1/13/2015 95.6 8,175.00 8,735.00 250,483.00 5635 1/13/2015 95.6 8,075.00 </td <td>25</td> <td>1/10/2015</td> <td>93.1</td> <td>8,452.00</td> <td>8,843.00</td> <td>5,385.00</td> <td>249,463.00</td> <td>5524</td> <td>0</td> | 25 | 1/10/2015 | 93.1 | 8,452.00 | 8,843.00 | 5,385.00 | 249,463.00 | 5524 | 0 |
| 1/11/2015 87.6 8.331.00 9,341.00 5,256.00 244,346.00 6710 1/11/2015 84.8 8,650.00 8,515.60 25,276.00 250,166.00 6682 1/11/2015 91.7 8,246.00 8,516.00 5,276.00 250,166.00 6682 1/12/2015 91.9 7,514.00 8,541.00 250,603.00 563.81 6028 1/12/2015 91.9 7,514.00 8,410.00 4,746.00 250,869.00 6028 1/12/2015 91.9 7,514.00 8,410.00 4,746.00 250,869.00 6028 1/12/2015 91.9 7,754.00 8,410.00 4,787.00 250,869.00 6078 1/13/2015 91.0 7,754.00 8,756.00 250,463.00 5,546.00 5,356.00 1/13/2015 95.6 7,754.00 8,250.00 250,463.00 5,546.00 5,357.00 1/13/2015 95.6 8,756.00 8,750.00 251,749.00 6,757.00 5,577.00 1/13/2015 95.6 8,7 | 26 | 1/11/2015 | 91.5 | 8,436.00 | 8,954.00 | 4,193.00 | 241,209.00 | 5592 | 0 |
| 1/11/2015 88.48 8,050.00 8,916.00 5,276.00 250,166.00 6682 1/11/2015 93.4 8,344.00 8,645.00 25,426.00 250,033.00 5698 1/12/2015 93.4 8,246.00 8,545.00 250,033.00 5698 1/12/2015 93.4 8,086.00 8,410.00 4,987.00 250,581.00 5608 1/12/2015 93.6 7,785.00 8,443.00 4,697.00 250,186.00 6078 1/12/2015 193.9 8,267.00 8,443.00 250,186.00 573.1 1/13/2015 101.1 7,869.00 8,251.00 250,186.00 560 1/13/2015 101.1 7,869.00 8,251.00 24,801.00 253,73 1/13/2015 101.1 7,869.00 8,254.00 251,900 254,800 566.20 1/13/2015 95.6 8,775.00 8,745.00 254,900 251,749.00 6215 1/13/2015 100.1 7,729.00 8,1380.00 251,749.00 531,749.00 <t< td=""><td>77</td><td>1/11/2015</td><td>87.6</td><td>8,331.00</td><td>9,341.00</td><td>5,526.00</td><td>244,346.00</td><td>6710</td><td>0</td></t<> | 77 | 1/11/2015 | 87.6 | 8,331.00 | 9,341.00 | 5,526.00 | 244,346.00 | 6710 | 0 |
| 1/11/2015 91.7 8,344.00 8,667.00 5,48.00 250,033.00 5698 1/12/2015 93.4 8,238.00 8,670.00 250,033.00 5633 1/12/2015 91.9 7,248.00 8,470.00 250,685.00 6078 1/12/2015 93.6 7,785.00 8,465.00 250,485.00 6078 1/12/2015 100.6 8,150.00 8,574.00 4,697.00 250,150.00 6078 1/12/2015 100.6 8,150.00 8,574.00 4,697.00 250,150.00 6078 1/13/2015 95.6 7,754.00 8,275.00 4,697.00 250,150.00 5731 1/13/2015 95.6 8,177.00 8,275.00 4,697.00 250,150.00 5732 1/13/2015 95.6 8,177.00 8,275.00 4,670.00 250,150.00 5732 1/13/2015 95.6 8,177.00 8,755.00 24,670.00 250,750.00 5073 1/13/2015 95.6 8,177.00 8,746.00 250,456.00 5073 | 28 | 1/11/2015 | 84.8 | 8,050.00 | 8,916.00 | 5,276.00 | 250,166.00 | 6082 | 0 |
| 1/12/2015 93.4 8,208.00 8,531.00 4,764.00 250,581.00 563.3 1/12/2015 91.9 7,914.00 8,410.00 4,987.00 250,581.00 6028 1/12/2015 93.6 7,785.00 8,463.00 250,150.00 5741 1/13/2015 100.6 8,105.00 8,574.00 250,150.00 573.5 1/13/2015 99.9 8,267.00 8,574.00 250,150.00 573.5 1/13/2015 99.9 8,267.00 8,574.00 250,463.00 5867 1/13/2015 99.9 8,267.00 8,574.00 250,463.00 5835 1/13/2015 99.9 8,267.00 8,267.00 250,463.00 5867 1/13/2015 99.5 8,775.00 8,756.00 250,463.00 5867 1/13/2015 99.5 8,177.00 8,756.00 250,463.00 5365 1/14/2015 100.1 7,729.00 8,138.00 250,456.00 5475 1/14/2015 100.1 8,260.00 8,138.00 | 29 | 1/11/2015 | 91.7 | 8,344.00 | 8,667.00 | 5,426.00 | 250,003.00 | 2698 | 0 |
| 1/12/2015 91.9 7,914,00 8,410.00 4,987.00 250,889.00 6028 1/12/2015 93.6 7,785.00 8,463.00 4,636.00 250,889.00 6078 1/12/2015 100.6 8,150.00 8,745.00 250,150.00 573.7 1/13/2015 100.6 8,150.00 8,545.00 250,150.00 573.7 1/13/2015 100.1 7,869.00 8,257.00 250,150.00 553.7 1/13/2015 95.6 8,175.00 8,225.00 4,801.00 248,901.00 5867 1/13/2015 95.6 8,076.00 8,225.00 4,850.00 250,1704.00 5967 1/13/2015 99.5 8,177.00 8,276.00 25,464.00 251,704.00 6011 1/14/2015 100.1 7,7729.00 8,138.00 4,365.00 254,460.00 550,456.00 6411 1/14/2015 100.1 7,729.00 8,138.00 251,704.00 550,456.00 6411 1/15/2015 99.4 8,280.00 8,138.00 <td< td=""><td>30</td><td>1/12/2015</td><td>93.4</td><td>8,208.00</td><td>8,531.00</td><td>4,764.00</td><td>250,581.00</td><td>5633</td><td>0</td></td<> | 30 | 1/12/2015 | 93.4 | 8,208.00 | 8,531.00 | 4,764.00 | 250,581.00 | 5633 | 0 |
| 1/12/2015 93.6 7785.00 8,463.00 4,636.00 251,245.00 6078 1/12/2015 100.6 8,150.00 8,574.00 4,667.00 250,150.00 5741 1/12/2015 100.6 8,150.00 8,574.00 4,607.00 250,150.00 5741 1/13/2015 100.6 8,150.00 8,529.00 4,607.00 288,000.00 5835 1/13/2015 95.6 7,754.00 8,024.00 4,607.00 251,749.00 6011 1/13/2015 99.5 8,177.00 8,130.00 4,676.00 251,749.00 6011 1/13/2015 99.5 8,177.00 8,136.00 251,749.00 6011 6011 1/14/2015 99.5 8,177.00 8,136.00 2544.00 250,740.00 6411 1/14/2015 99.5 8,172.00 8,136.00 249.60.00 5475 6411 1/15/2015 99.4 7,928.00 8,138.00 249,620.00 550,60.00 5475 1/15/2015 100.2 8,020.00 | 31 | 1/12/2015 | 91.9 | 7,914.00 | 8,410.00 | 4,987.00 | 250,869.00 | 6028 | 0 |
| 1/12/2015 100.6 8,150.00 8,574.00 4,607.00 250,150.00 5741 1/13/2015 99.9 8,1267.00 8,561.00 250,150.00 250,453.00 5535 1/13/2015 10.1.1 7,869.00 8,261.00 4,607.00 246,901.00 566.00 1/13/2015 95.6 7,754.00 8,204.00 4,955.00 248,806.00 596.7 1/13/2015 95.6 8,177.00 8,204.00 4,955.00 251,749.00 6011 1/13/2015 99.5 8,177.00 8,138.00 4,566.00 251,749.00 6011 1/14/2015 99.5 8,177.00 8,138.00 4,566.00 251,749.00 6011 1/14/2015 99.5 8,177.00 8,138.00 4,566.00 250,456.00 6215 1/14/2015 99.4 7,278.00 8,138.00 4,365.00 250,456.00 6411 1/15/2015 99.4 7,928.00 8,128.00 250,456.00 250,456.00 6515 1/15/2015 98.4 8,0 | 32 | 1/12/2015 | 93.6 | 7,785.00 | 8,463.00 | 4,636.00 | 251,245.00 | 8209 | 0 |
| 1/13/2015 99.9 8,267,00 8,561,00 5,19,00 250,463.00 5535 1/13/2015 101.1 7,869.00 8,229.00 4,801.00 248,901.00 5867 1/13/2015 95.6 7,754.00 8,024.00 4,925.00 248,900.00 5962 1/13/2015 95.6 8,177.00 8,024.00 4,925.00 251,749.00 6011 1/13/2015 99.5 8,177.00 8,756.00 25,464.00 250,625.00 5475 1/14/2015 99.4 8,756.00 8,736.00 25,460.00 6215 6215 1/14/2015 99.4 7,729.00 8,138.00 4,366.00 250,456.00 6411 1/14/2015 99.4 7,729.00 8,138.00 4,366.00 250,750.00 5442 1/15/2015 190.2 8,230.00 8,133.00 4,493.00 250,770.00 55753 1/15/2015 100.2 8,090.00 8,734.00 249,692.00 5,753 1/15/2015 100.3 7,899.00 8,537.00 | 33 | 1/12/2015 | 100.6 | 8,150.00 | 8,574.00 | 4,607.00 | 250,150.00 | 5741 | 0 |
| 1/13/2015 101.1 7/869.00 8,229.00 4,801.00 248,901.00 5867 1/13/2015 95.6 7,754.00 8,024.00 248,806.00 5962 1/13/2015 95.6 8,075.00 8,245.00 248,806.00 5962 1/13/2015 95.6 8,075.00 8,746.00 251,749.00 6011 1/14/2015 99.7 8,177.00 8,188.00 4,546.00 250,750.00 5475 1/14/2015 99.4 7,928.00 9,138.00 4,546.00 250,770.00 540.1 1/15/2015 99.4 7,928.00 8,133.00 4,566.00 250,770.00 540.2 1/15/2015 99.4 7,928.00 8,133.00 4,563.00 248,021.00 520.7 1/15/2015 99.4 7,928.00 8,133.00 4,570.00 249,021.00 520,700.00 1/15/2015 100.3 8,090.00 8,234.00 2,495.00 249,021.00 5390 1/15/2015 100.4 8,020.00 8,234.00 2,507.00 25 | 34 | 1/13/2015 | 6.66 | 8,267.00 | 8,561.00 | 5,119.00 | 250,463.00 | 5535 | 0 |
| 1/13/2015 95.6 7,754.00 8,024.00 4,925.00 248,806.00 5962 1/13/2015 99.5 8,076.00 8,330.00 4,676.00 251,749.00 6011 1/14/2015 100.1 7,729.00 8,188.00 4,366.00 250,456.00 6411 1/14/2015 100.1 7,729.00 8,188.00 250,456.00 6411 1/14/2015 99.4 8,269.00 9,138.00 250,770.00 5412 1/15/2015 99.4 8,090.00 8,103.00 250,770.00 5441 1/15/2015 98.4 8,090.00 8,138.00 248,520.00 5441 1/15/2015 100.2 8,027.00 4,495.00 249,692.00 5753 1/15/2015 100.4 8,106.00 8,749.00 5,047.00 5753 1/15/2015 100.4 8,106.00 8,749.00 250,700.00 5390 1/15/2015 100.5 8,020.00 8,749.00 250,700.00 5390 1/15/2015 100.3 7,889.00 | 35 | 1/13/2015 | 101.1 | 7,869.00 | 8,229.00 | 4,801.00 | 248,901.00 | 5867 | 0 |
| 1/13/2015 95.6 8,076.00 8,300.00 4,676.00 251,749.00 6011 1/13/2015 99.5 8,177.00 8,136.00 5,444.00 250,652.00 5475 1/14/2015 100.1 7,729.00 8,188.00 4,366.00 250,770.00 6215 1/14/2015 99.4 7,928.00 9,138.00 4,365.00 250,770.00 6411 1/15/2015 99.4 7,928.00 8,103.00 4,435.00 250,770.00 5442 1/15/2015 99.4 8,090.00 8,723.00 4,435.00 248,021.00 5753 1/15/2015 100.2 8,027.00 8,234.00 4,492.00 249,692.00 5753 1/15/2015 100.4 8,106.00 8,749.00 2,047.00 250,700.00 530 1/15/2015 100.5 8,020.00 8,521.00 250,700.00 530 530 1/15/2015 100.3 7,889.00 8,521.00 250,700.00 550 530 1/15/2015 100.3 7,889.00 | 36 | 1/13/2015 | 92.6 | 7,754.00 | 8,024.00 | 4,925.00 | 248,806.00 | 2962 | 0 |
| 1/13/2015 99.5 8,177:00 8,756.00 5,464.00 250,652.00 5475 1/14/2015 100.1 7,729:00 8,188:00 4,366:00 251,704:00 6215 1/14/2015 93.7 8,269:00 9,138:00 250,456:00 6411 1/15/2015 99.4 7,928:00 8,103:00 250,770:00 5242 1/15/2015 98.4 8,090:00 8,722:00 4,643:00 250,770:00 5442 1/15/2015 100.2 8,027:00 4,432:00 249,692:00 5753 1/15/2015 100.4 8,106:00 8,749:00 249,692:00 5753 1/15/2015 100.4 8,106:00 8,749:00 249,710:00 5390 1/15/2015 100.5 8,020:00 8,521:00 250,700:00 5302 1/15/2015 100.3 7,889:00 8,521:00 250,700:00 5783 1/16/2015 100.3 7,889:00 5,241:00 250,700:00 5783 1/17/2015 90.5 8,037:00 | 37 | 1/13/2015 | 95.6 | 8,076.00 | 8,300.00 | 4,676.00 | 251,749.00 | 6011 | 0 |
| 1/14/2015 100.1 7/22:00 8,188:00 4,366:00 251,704:00 6215 1/14/2015 93.7 8,269:00 9,138:00 4,365:00 250,456:00 6411 1/15/2015 99.4 7,728:00 8,103:00 4,430:00 250,470:00 5442 1/15/2015 98.4 8,090:00 8,722:00 4,430:00 248,021:00 5270 1/15/2015 100.2 8,020:00 8,734:00 249,692:00 5753 1/15/2015 100.4 8,106:00 8,749:00 249,217:00 6095 1/15/2015 100.4 8,106:00 8,749:00 249,217:00 6995 1/15/2015 100.3 7,889:00 8,521:00 250,700:00 5390 1/15/2015 100.3 7,889:00 7,890:00 250,700:00 540:00 1/16/2015 100.3 7,889:00 7,890:00 5,241:00 250,700:00 1/17/2015 90.5 8,037:00 5,241:00 250,700:00 578:3 1/17/2015 90.5 | 88 6 | 1/13/2015 | 99.5 | 8,177.00 | 8,756.00 | 5,464.00 | 250,652.00 | 5475 | 0 |
| 1/15/2015 99.4 8,798.00 8,138.00 4,505.00 250,496.00 6411 1/15/2015 99.4 7,928.00 8,103.00 4,643.00 250,770.00 6412 1/15/2015 98.4 7,928.00 8,103.00 4,855.00 248,021.00 5270 1/15/2015 98.4 8,090.00 8,722.00 4,855.00 249,692.00 5753 1/15/2015 100.4 8,106.00 8,749.00 5,047.00 249,217.00 6095 1/15/2015 100.4 8,106.00 8,749.00 248,741.00 5390 5390 1/15/2015 100.3 7,889.00 8,521.00 250,709.00 5302 5476 1/15/2015 100.3 7,889.00 8,521.00 250,709.00 5476 5783 1/16/2015 99.5 7,759.00 7,890.00 5,241.00 250,700.00 5783 1/17/2015 90.5 8,035.00 9,376.00 25,241.00 250,731.00 5695 1/17/2015 96 8,035.00 < | 35 | 1/14/2015 | 100.1 | 0.627,7 | 8,188.00 | 4,366.00 | 251,704.00 | 6215 | 0 |
| 1/15/2015 99.4 7/928.00 8,103.00 4,643.00 250,770.00 5442 1/15/2015 98.4 8,090.00 8,722.00 248,632.00 2270 5270 1/15/2015 100.2 8,090.00 8,732.00 4,855.00 249,692.00 5753 1/15/2015 100.2 8,090.00 8,749.00 5,497.00 249,692.00 5753 1/15/2015 100.3 8,020.00 8,749.00 5,497.00 249,217.00 6095 1/15/2015 100.3 7,889.00 8,521.00 248,741.00 5390 1/16/2015 99.5 7,759.00 7,890.00 250,700.00 5476 1/16/2015 90.5 9,035.00 8,124.00 250,700.00 5783 1/17/2015 90.5 9,035.00 5,241.00 250,740.00 5783 1/17/2015 96 8,035.00 5,241.00 250,740.00 5695 1/17/2015 96 8,035.00 5,237.00 249,670.00 5695 1/17/2015 | 40 | 1/14/2015 | 93.7 | 8,269.00 | 9,138.00 | 4,305.00 | 250,456.00 | 6411 | 0 |
| 1/12/2015 98.4 8,090.00 8,722.00 4,855.00 248,021.00 5270 1/15/2015 100.2 8,027.00 8,234.00 4,492.00 249,692.00 5753 1/15/2015 100.4 8,106.00 8,749.00 5,047.00 249,217.00 6095 1/15/2015 100.3 7,889.00 8,635.00 4,495.00 248,741.00 5390 1/15/2015 100.3 7,889.00 8,521.00 4,574.00 250,709.00 5476 1/16/2015 99.5 7,759.00 7,890.00 4,662.00 250,709.00 5476 1/17/2015 90.5 9,026.00 9,376.00 5,2041.00 5578 1/17/2015 96 8,013.00 8,050.00 5,237.00 250,711.00 688 1/17/2015 96 8,013.00 8,050.00 5,237.00 249,670.00 5695 1/17/2015 92.3 8,776.00 9,037.00 249,670.00 5395 252 1/17/2015 99.2 8,055.00 5,221.00 | 141 | 1/15/2015 | 99.4 | 7,928.00 | 8,103.00 | 4,643.00 | 250,770.00 | 5442 | 0 |
| 1/13/2015 100.2 8,027.00 8,234.00 4,492.00 249,692.00 5/53 1/15/2015 100.4 8,106.00 8,749.00 5,047.00 249,127.00 6095 1/15/2015 100.5 8,106.00 8,749.00 248,741.00 5390 1/15/2015 100.3 7,889.00 8,521.00 250,709.00 5476 1/16/2015 99.5 7,759.00 7,890.00 4,652.00 250,700.00 5476 1/16/2015 90.5 9,026.00 9,376.00 5,2041.00 550,4100 5783 1/17/2015 96 8,013.00 8,050.00 5,237.00 250,711.00 6888 1/17/2015 96 8,013.00 8,050.00 5,237.00 251,219.00 5767 1/17/2015 92.3 8,776.00 9,037.00 5,231.00 251,219.00 5695 1/17/2015 92.2 8,055.00 5,281.00 250,407.00 5395 250,700.00 1/17/2015 92.2 8,055.00 5,281.00 250,407.00 <td>47</td> <td>1/15/2015</td> <td>98.4</td> <td>8,090.00</td> <td>8,722.00</td> <td>4,855.00</td> <td>248,021.00</td> <td>5270</td> <td>0</td> | 47 | 1/15/2015 | 98.4 | 8,090.00 | 8,722.00 | 4,855.00 | 248,021.00 | 5270 | 0 |
| 1/13/2015 100.4 8,100.00 8,749.00 2,047.00 249,217.00 6095 1/15/2015 100.5 8,020.00 8,635.00 4,495.00 248,741.00 5390 1/15/2015 100.3 7,889.00 8,521.00 250,709.00 5476 1/16/2015 99.5 7,759.00 7,890.00 4,662.00 250,700.00 5476 1/16/2015 90.5 9,026.00 8,124.00 4,987.00 250,481.00 5783 1/17/2015 96.5 8,013.00 8,124.00 5,247.00 250,711.00 6888 1/17/2015 96 8,013.00 8,050.00 5,247.00 251,219.00 5767 1/17/2015 92.3 8,776.00 9,037.00 5,241.00 249,670.00 5695 1/17/2015 99.2 8,055.00 8,684.00 5,340.00 5395 5995 1/17/2015 99.2 8,055.00 8,364.00 5,340.00 5395 5280 | 45 | 1/15/2015 | 100.2 | 8,027.00 | 8,234.00 | 4,492.00 | 249,692.00 | 5753 | 0 |
| 1/15/2015 1/00.3 7,899.00 6,532.00 4,737.00 246,741.00 3590 1/15/2015 100.3 7,899.00 8,521.00 250,709.00 5302 1/16/2015 99.5 7,759.00 7,890.00 4,652.00 250,700.00 5476 1/16/2015 90.5 7,826.00 8,124.00 5,20,700.00 5783 1/17/2015 90.5 9,026.00 9,376.00 5,241.00 250,711.00 6888 1/17/2015 96 8,013.00 8,050.00 5,221.00 251,219.00 5767 1/17/2015 92.3 8,776.00 9,037.00 5,231.00 249,670.00 5695 1/17/2015 99.2 8,055.00 8,684.00 5,342.00 250,711.00 5695 1/17/2015 99.2 8,055.00 8,364.00 5,340.00 5395 8,365.00 1/17/2015 99.2 8,055.00 8,364.00 5,340.00 526,700.00 5395 | 4 | 1/15/2015 | 100.4 | 9,100.00 | 8,749.00 | 3,047.00 | 249,217.00 | 6095 | 0 0 |
| 1/17/2015 99.2 7,759.00 7,890.00 4,574.00 250,709.00 3502 1/16/2015 99.5 7,759.00 7,890.00 4,662.00 250,700.00 5783 1/16/2015 100.3 7,826.00 8,124.00 4,987.00 250,481.00 5783 1/17/2015 90.5 9,026.00 9,376.00 5,241.00 250,711.00 6888 1/17/2015 96 8,013.00 8,056.00 5,241.00 251,219.00 5767 1/17/2015 92.3 8,776.00 9,037.00 5,281.00 249,670.00 5695 1/17/2015 99.2 8,055.00 8,384.00 5,281.00 5395 5995 1/17/2015 99.2 8,055.00 8,364.00 5,340.00 5595 5995 1/17/2015 99.2 8,055.00 8,364.00 5,340.00 5595 5995 | A6 | 1/15/2015 | 100.3 | 7 889 00 | 0,033.00 | 4,493.00 | 240,741.00 | 5390 | 0 0 |
| 1/17/2015 1/17/2015 <t< td=""><td>47</td><td>1/16/2015</td><td>5 00</td><td>7 759 00</td><td>7 890 00</td><td>4,574,00</td><td>250,705.00</td><td>5302</td><td></td></t<> | 47 | 1/16/2015 | 5 00 | 7 759 00 | 7 890 00 | 4,574,00 | 250,705.00 | 5302 | |
| 1/17/2015 90.5 9,025.00 9,125.00 9,125.00 9,125.00 9,125.00 9,125.00 9,125.00 9,125.00 9,125.00 1/17/2015 96.8 9,035.00 8,055.00 5,241.00 251,219.00 5767 1/17/2015 92.3 8,776.00 9,037.00 5,281.00 249,670.00 5695 1/17/2015 99.2 8,055.00 8,684.00 5,342.00 249,704.00 5995 1/17/2015 99.2 8,055.00 8,364.00 5,340.00 5395 5395 1/17/2015 100.2 7,971.00 8,364.00 5,356.00 250,407.00 5280 | 48 | 1/16/2015 | 1003 | 7 876 00 | 00.066,7 | 4,002.00 | 250,700.00 | 54/0 | |
| 1/17/2015 96 8,013.00 8,055.00 5,231.00 251,131.00 5767 1/17/2015 92.3 8,776.00 9,037.00 5,281.00 249,670.00 5695 1/17/2015 99.2 8,055.00 8,684.00 5,332.00 249,704.00 5395 1/17/2015 100.2 7,971.00 8,364.00 5,356.00 250,407.00 5280 | 49 | 1/17/2015 | 90.5 | 9.026.00 | 9 376 00 | 5 241 00 | 250,461.00 | 2/03 | 0 0 |
| 1/17/2015 92.3 8/776.00 9/33.00 5/337.00 <th< td=""><td>25</td><td>1/17/2015</td><td>96</td><td>8 013 00</td><td>8 050 00</td><td>5 257 00</td><td>251 219 00</td><td>7373</td><td></td></th<> | 25 | 1/17/2015 | 96 | 8 013 00 | 8 050 00 | 5 257 00 | 251 219 00 | 7373 | |
| 1/17/2015 99.2 8,055.00 8,684.00 5,342.00 249,704.00 5395 1/17/2015 100.2 7,971.00 8,364.00 5,356.00 250,407.00 5280 | 51 | 1/17/2015 | 92.3 | 8,776.00 | 9,037,00 | 5.281.00 | 249.670.00 | 5695 | 0 0 |
| 1/17/2015 100.2 7,971.00 8,364.00 5,356.00 250,407.00 5280 | 52 | 1/17/2015 | 99.2 | 8,055.00 | 8,684.00 | 5,342.00 | 249,704.00 | 5395 | 0 |
| | 53 | 1/17/2015 | 100.2 | 7,971.00 | 8,364.00 | 5,356.00 | 250,407.00 | 5280 | 0 |

Hydraulic Fracturing Fluid Product Component Information Disclosure

| 0 | Total Base Non Water Volume: |
|--------------------|--------------------------------|
| 14,669,298 | Total Base Water Volume (gal): |
| 865'9 | True Vertical Depth: |
| ON | Federal/Tribal Well: |
| NAD83 | Datum: |
| 39.22842400 | Latitude: |
| -80.78762700 | Longitude: |
| 513140 | Well Name and Number: |
| EQT Production | Operator Name: |
| 47-017-06329-00-00 | API Number: |
| Doddridge | County: |
| West Virginia | State: |
| 1/18/2015 | Job End Date: |
| 1/1/2015 | Job Start Date: |



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|--|--------------------|--|-------------------|--------------------|----------------------------|-------------------|-------------------|-------------------------------|------------------|-------------------|---------------------|---------------------|-------------------|----------------------|-------------|-------------|-------------|-------------------|-------------|
| Maximum Ingredient Concentration in HF Fluid (% by mass)** | | 89.91274None | | 9.74030None | | 0.02951None | | 0.02171None | 0.00434None | | 0.01263None | 0.00526None | | 0.00435None | 0.00395None | 0.00016None | 0.00016None | | 0.00243None |
| Maximum Ingredient Concentration in Additive (% by mass)** | - | 100.00000 | | 100.00000 | | 15.00000 | | 30.0000 | 0000009 | | 48.00000 | 20.00000 | | 55.00000 | 20.00000 | 2.00000 | 2.00000 | | 24.00000 |
| Chemical Abstract Service, Number (CAS #) | | 7732-18-5 | | 14808-60-7 | | 7647-01-0 | | 64742-47-8 | 631-61-8 | | 584-08-7 | 1310-58-3 | | 64742-47-8 | 9000-30-0 | 68439-51-0 | 14808-60-7 | | 533-74-4 |
| Ingredients | | Water | | Crystalline Silica | | Hydrochloric Acid | | Hydrotreated light distillate | Ammonium acetate | | Potassium carbonate | Potassium hydroxide | | Petroleum distillate | Guar gum | Surfactant | Clay | | Dazomet |
| Purpose | Carrier/Base Fluid | | Proppant | | Acidizing | | Friction reducer | | | High pH buffer | | | Gelling agent | | | | | Biocide | |
| Supplier | FTS International | A STATE OF THE STA | FTS International | | FTS International | | FTS International | | | FTS International | | | FTS International | | | | | FTS International | |
| Trade Name | Water | | Sand (Proppant) | | Hydrochloric Acid (15%) | | FRW-600 | | | B-10 | | | HVG-1 | | | | | CI-3240 | |

| oxide N.Pure | | | A STATE OF THE PARTY OF THE PAR | Souldin Hydroxide | 1310-73-2 | 4.00000 | 0.00041None | |
|--|---|-------------------|--|-------------------------------|-------------|----------|-------------|--|
| Trick international Friction reducer | CS-200-SI | FTS International | Scale inhibitor | | | | | |
| FTS International Friction reducer | | | | Ethylene glycol | 107-21-1 | 10.00000 | 0.00246None | |
| Hydrotreated light distillate 54742-47-8 30.0000C | FRW-900 | FTS International | Friction reducer | | | | | |
| The state of the | | | | Hydrotreated light distillate | 64742-47-8 | 30.0000 | 0.00096None | |
| FTS International Acid Corrosion Inhibitor Inh | | | | Alkyl Alcohol | Proprietary | 10.00000 | 0.00032None | |
| FTS International Acid Corrosion Proprietary Proprietary Proprietary 30.00000 | | | | Oxyalkylated alcohol A | Proprietary | 5.00000 | 0.00016None | |
| Sopropanol Sopropanol S7-63-0 30.0000c | CI-150 | FTS International | Acid Corrosion Inhibitor | | | | | |
| FTS International Organic amine resin salt Proprietary 30.00000 Ethylene glycol 107-21-1 30.00000 Aromatic aldehyde Proprietary 10.00000 FTS International Breaker 10.00000 FTS International Ammonium persulfate 7727-54-0 95.00000 FTS International Non-emulsifier 2-Propanol 67-63-0 10.00000 FTS International Iron control 2-Butoxyethanol 111-76-2 10.00000 FTS International Iron control Citric acid 77-92-9 5.00000 Neptune Disinfectant and/or Citric acid 77-92-9 55.00000 Neptune Oxidizer Chlorine dioxide 10049-04-4 0.330000 | | | | Isopropanol | 67-63-0 | 30.0000 | 0.00011None | |
| Ethylene glycol 107-21-1 30,00000 Aromatic aldehyde Proprietary 10,0000 FTS International Breaker Ammonium persulfate 7727-54-0 95,0000 FTS International Non-emulsifier 2-Propanol 67-63-0 10,0000 FTS International Dodecylbenzenesulfonic acid 27176-87-0 5,00000 FTS International Citric acid 77-92-9 55,00000 Neptune Disinfectant and/or Citric acid 77-92-9 55,00000 Neptune Disinfectant and/or Chlorine dioxide 77-92-9 55,00000 | | | | Organic amine resin salt | Proprietary | 30.0000 | 0.00011None | |
| Aromatic aldehyde Proprietary 10,00000 Quaternary ammonium Proprietary 10,00000 FTS International Breaker 10,00000 FTS International Non-emulsifier 2-Propanol 57.27-54-0 95,0000 FTS International Non-emulsifier 2-Propanol 67.63-0 10,00000 FTS International Iron control 2-Butoxyethanol 111-76-2 10,00000 FTS International Iron control Citric acid 27.776-87-0 5.00000 Meptune Disinfectant and/or oxidizer Chlorine dioxide 10049-04-4 0.30000 | | | | Ethylene glycol | 107-21-1 | 30.0000 | 0.00011None | |
| Compound compound Proprietary 10.00000 FTS International FTS International Non-emulsifier Ammonium persulfate 7727-54-0 95.0000 FTS International Non-emulsifier 2-Propanol 67-63-0 10.0000 FTS International Non-emulsifier 2-Butoxyethanol 111-76-2 10.0000 FTS International From control Caltric acid 27176-87-0 5.0000 FTS International Non-emulsifier Caltric acid 77-92-9 55.0000 FTS International Non-emulsifier Caltric acid 77-92-9 55.0000 Neptune Obisinfectant and/or Oxidizer Chlorine dioxide 10049-04-4 0.30000 | | | | Aromatic aldehyde | Proprietary | 10.00000 | 0.00004None | |
| FTS International Fractional Breaker Dimethylformamide 68-12-2 10.00000 FTS International FTS International RTS International Promotion of the Part International RTS International Research International RTS International Research International RTS International | | | | Quaternary ammonium compound | Proprietary | 10.00000 | 0.00004None | |
| FTS International Fractional Formational FTS International FTS International FTS International Non-emulsifier Ammonium persulfate 7727-54-0 95.00000 FTS International FTS International FTS International FTS International Iron control FTS Iron | | | | Dimethylformamide | 68-12-2 | 10,00000 | 0.00004None | |
| FTS International Non-emulsifier Ammonium persulfate 7727-54-0 95.00000 FTS International Transitional Non-emulsifier 2-Propanol 67-63-0 10.00000 FTS International Iron control Citric acid 27176-87-0 5.00000 Neptune Obisinfectant and/or Oxidizer Citric acid 77-92-9 55.00000 Chlorine dioxide 10049-04-4 0.30000 | APB-1 | FTS International | Breaker | | | | | |
| FTS International Non-emulsifier 2-Propanol 67-63-0 10.00000 2-Butoxyethanol 111-76-2 10.00000 FTS International Iron control Dodecylbenzenesulfonic acid 27176-87-0 5.00000 Neptune Disinfectant and/or 77-92-9 55.00000 Neptune Oxidizer Chlorine dioxide 10049-04-4 0.30000 | | | | Ammonium persulfate | 7727-54-0 | 95.00000 | 0.00011None | |
| 2-Propanol 67-63-0 10.00000 2-Butoxyethanol 111-76-2 10.00000 FTS International Iron control 5.00000 Citric acid 77-92-9 55.00000 Neptune Disinfectant and/or 55.00000 Oxidizer Chlorine dioxide 10049-04-4 0.30000 | NE-100 | FTS International | Non-emulsifier | | | | | |
| 2-Butoxyethanol 111-76-2 10.00000 | | | | 2-Propanol | 67-63-0 | 10.00000 | 0.00003None | |
| FTS International Iron control Dodecylbenzenesulfonic acid 27176-87-0 5.00000 FTS International Iron control Citric acid 77-92-9 55.00000 Neptune Oxidizer Oxidizer Chlorine dioxide 10049-04-4 0.30000 | | | | 2-Butoxyethanol | 111-76-2 | 10.00000 | 0.00003None | |
| FTS International Iron control Citric acid 77-92-9 55.00000 Neptune Oxidizer Oxidizer Chlorine dioxide 10049-04-4 0.30000 | | | | Dodecylbenzenesulfonic acid | 27176-87-0 | 5.00000 | 0.00002None | |
| Neptune Disinfectant and/or oxidizer Cltric acid 77-92-9 55.00000 Oxidizer Chlorine dioxide 10049-04-4 0.30000 | FE-100L | FTS International | Iron control | | | | | |
| Neptune Disinfectant and/or oxidizer Chlorine dioxide 10049-04-4 0.30000 | | | | Citric acid | 77-92-9 | 55.00000 | 0.00005None | |
| Chlorine dioxide 10049-04-4 0.30000 | Chlorine Dioxide Solution - SVP-Pure | Neptune | Disinfectant and/or oxidizer | | | | | |
| | | | | Chlorine dioxide | 10049-04-4 | 0.30000 | 0.00001None | |

Total Water Volume sources may include fresh water, produced water, and/or recycled water
 Information is based on the maximum potential for concentration and thus the total may be over 100%

Note: For Field Development Products (products that begin with FDP), MSDS level only information has been provided. Ingredient information for chemicals subject to 29 CFR 1910.1200(i) and Appendix D are obtained from suppliers Material Safety Data Sheets (MSDS)

