KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION

1362985

Form ACO-1 August 2013 Form must be Typed Form must be Signed All blanks must be Filled

WELL COMPLETION FORM WELL HISTORY - DESCRIPTION OF WELL & LEASE

| OPERATOR: License # | API No. 15 |
|--|--|
| Name: | Spot Description: |
| Address 1: | |
| Address 2: | Feet from Dorth / South Line of Section |
| City: State: Zip:+ | Feet from East / West Line of Section |
| Contact Person: | Footages Calculated from Nearest Outside Section Corner: |
| Phone: () | |
| CONTRACTOR: License # | GPS Location: Lat:, Long: |
| Name: | (e.g. xx.xxxxx) (e.gxxx.xxxxx) Datum: NAD27 NAD83 WGS84 |
| Wellsite Geologist: | County: |
| Purchaser: | Lease Name: Well #: |
| Designate Type of Completion: | Field Name: |
| New Well Re-Entry Workover | Producing Formation: |
| | Elevation: Ground: Kelly Bushing: |
| Gas D&A ENHR SIGW | Total Vertical Depth: Plug Back Total Depth: |
| OG GSW Temp. Abd. CM (Coal Bed Methane) | Amount of Surface Pipe Set and Cemented at: Feet |
| Cathodic Other (Core, Expl., etc.): | Multiple Stage Cementing Collar Used? |
| If Workover/Re-entry: Old Well Info as follows: | If yes, show depth set: Feet |
| Operator: | If Alternate II completion, cement circulated from: |
| Well Name: | feet depth to:w/sx cmt. |
| Original Comp. Date: Original Total Depth: | |
| Deepening Re-perf. Conv. to ENHR Conv. to SWD | Drilling Fluid Management Plan |
| Plug Back Conv. to GSW Conv. to Producer | (Data must be collected from the Reserve Pit) |
| | Chloride content: ppm Fluid volume: bbls |
| Commingled Permit #: | Dewatering method used: |
| Dual Completion Permit #: SWD Permit #: | Leastion of fluid dispaced if hould off-it- |
| SWD Permit #: ENHR Permit #: | Location of fluid disposal if hauled offsite: |
| GSW Permit #: | Operator Name: |
| | Lease Name: License #: |
| Orand Data and Data Data Data dTD Oranglating Data and | Quarter Sec Twp S. R East West |

County:

Spud Date or **Recompletion Date** Date Reached TD

Completion Date or **Recompletion Date**

> **KCC Office Use ONLY** Confidentiality Requested Date: Confidential Release Date: _ Wireline Log Received **Geologist Report Received** UIC Distribution ALT I I II Approved by: Date:

Permit #: ____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

| | Page Two | 1362985 |
|---|--------------------------------|--|
| Operator Name: | Lease Name: | Well #: |
| Sec TwpS. R □ East □ West | County: | |
| INCTRUCTIONS. Chaw important tang of formations panetrated Da | ail all aaraa Bapart all final | panias of drill stome tosts siving interval tested time tool |

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

| Drill Stem Tests Taken (Attach Additional She | eets) | Yes No | | 0 | on (Top), Depth a | | Sample |
|--|----------------------|------------------------------------|----------------------|------------------|-------------------|-----------------|-------------------------------|
| Samples Sent to Geolog | jical Survey | Yes No | Name | 9 | | Тор | Datum |
| Cores Taken Electric Log Run | | Yes No | | | | | |
| List All E. Logs Run: | | | | | | | |
| | | CASING Report all strings set-c | RECORD New | | on, etc. | | |
| Purpose of String | Size Hole Drilled | Size Casing Set (In O.D.) | Weight Lbs. / Ft. | Setting Depth | Type of Cement | # Sacks Used | Type and Percent Additives |
| | | | | | | | |
| | | | | | | | |
| - | | ADDITIONAL | CEMENTING / SQU | EEZE RECORD | | | |

| Perforate | |
|---------------------------------------|--|
| Protect Casing | |
| Plug Back TD Plug Off Zone | |

| Did you perform a hydraulic fracturing treatment on this well? | Yes |
|---|-----|
| Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? | Yes |
| Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? | Yes |

| | No |
|--|----|
| | No |

No

(If No, skip questions 2 and 3) (If No, skip question 3)

(If No, fill out Page Three of the ACO-1)

| Shots Per Foot | | | | RD - Bridge Plu Each Interval Pe | | be | ŀ | | ement Squeeze Record I of Material Used) | Depth |
|--------------------------------------|-----------|------------------|---------|-------------------------------------|-------|---------|-------------------------|---------------------------|---|---------|
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| TUBING RECORD: | Si | ze: | Set At: | | Packe | r At: | Liner Rı | un: | No | |
| Date of First, Resumed | I Product | ion, SWD or ENHI | ٦. | Producing Me | thod: | ping | Gas Lift | Other (Explain) | | |
| Estimated Production Per 24 Hours | | Oil Bt | ls. | Gas | Mcf | Wate | ər | Bbls. | Gas-Oil Ratio | Gravity |
| | | | | · | | | | | | |
| DISPOSITI | _ | | | | | | | | PRODUCTION INTER | RVAL: |
| Vented Solo | d 🔤 | Used on Lease | | Open Hole | Perf. | (Submit | Comp. 4 <i>CO-5)</i> | Commingled (Submit ACO-4) | | |
| (If vented, Su | ıbmit ACC | D-18.) | | Other (Specify) _ | | | | . , | | |

| Form | ACO1 - Well Completion |
|-----------|----------------------------|
| Operator | StrataKan Exploration, LLC |
| Well Name | SEWARD SW 1-1 |
| Doc ID | 1362985 |

Casing

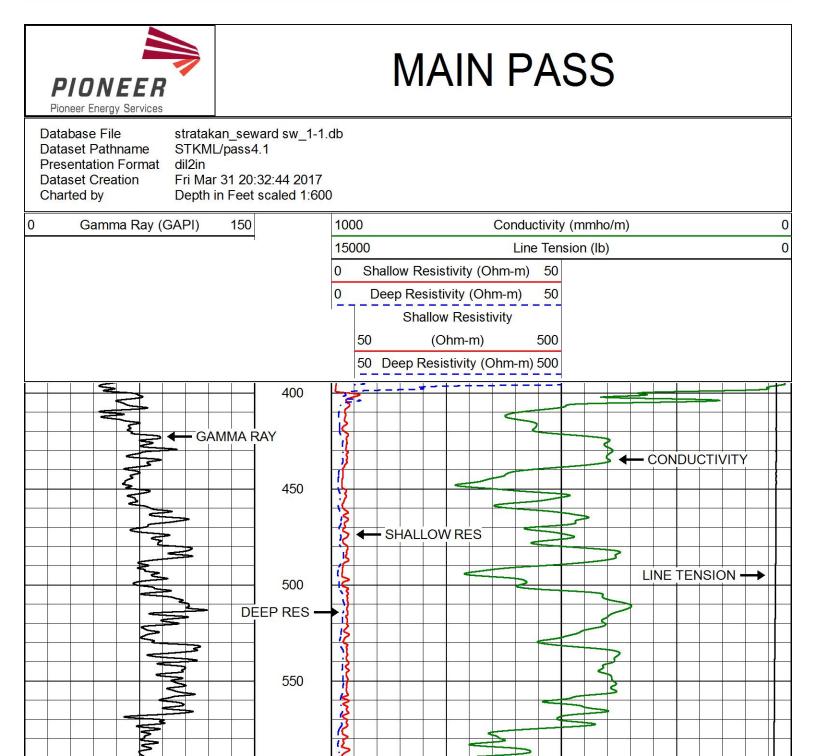
| Purpose Of String | Size Hole Drilled | Size Casing Set | Weight | Setting Depth | Type Of Cement | | Type and Percent Additives |
|----------------------|----------------------|-----------------------|--------|------------------|-------------------|-----|----------------------------------|
| Surface | 12.25 | 8.625 | 32 | 404 | 60/40 | | 4%CC 2%Gel |
| Production | 7.875 | 5.5 | 15.50 | 3791 | QProCom mon | 190 | 10%Salt 5%KCL |
| | | | | | | | |
| | | | | | | | |

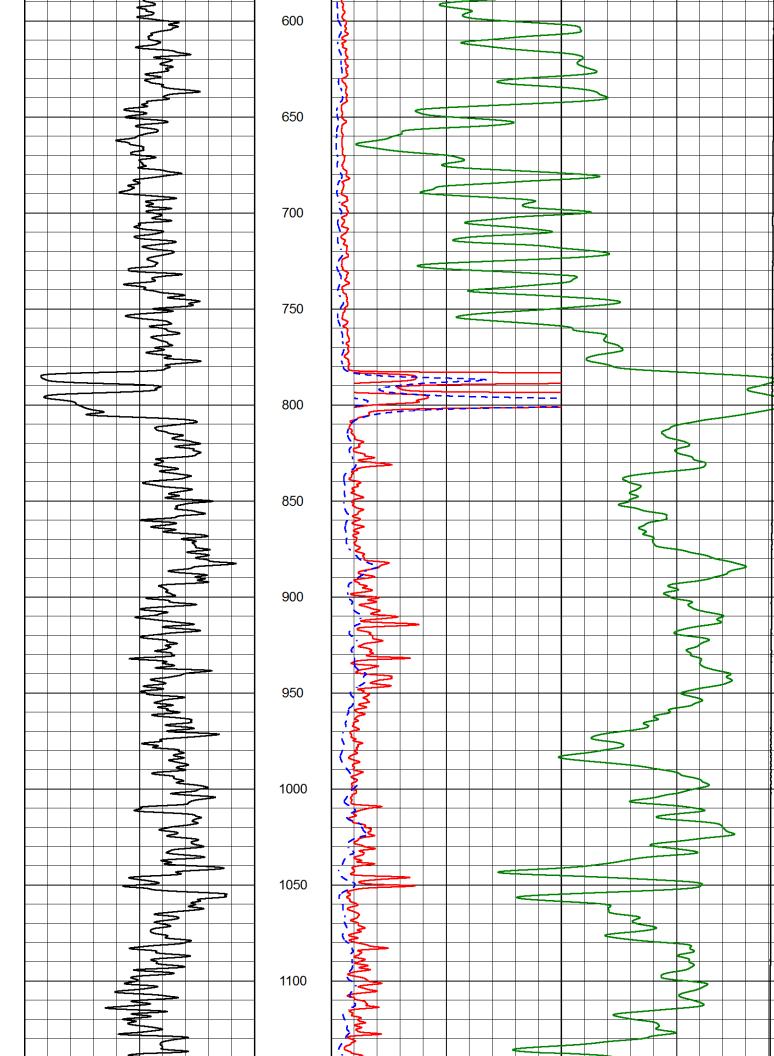
| | // | | | | | | | | | |
|------------------------------------|--------------------------------------|----------|---|-------------------------------------|--|--------------|-----------------------|---------------------|-------------|----------------------------------|
| PIONEER Pioneer Energy Services | IONEER Neer Energy Services | N | DUAL INDUCTION | TION | nnot and does no / loss, costs, dam ployees. | | | atum | | sed By TER |
| N, LLO | < | STR, | STRATAKAN EXPLORATION, LLC | ON, LLC | | | | ent Da | | <u>Vitnes</u> PRA |
| ΑΤΙΟ | Well | SEW | SEWARD SW #1-1 | | oonsib | .E. | Ι, | mar | S | |
| | Field | CURTIS | TIS | | or resp | ABI | RTH | Per | √ICE | |
| I EX₽ V #1- | County | STA | STAFFORD State KA | KANSAS | liable | PLIC | NO | oove | | SS: SS: |
| D SV DRD | Location: | | API #: 15-185-23983-00-00 | Other Services | otbe | AP | 1/4 | t. Ał | | ess: tne: tne: |
| | | 1613 | 1613' FSL & 405' FEL | CNL/CDL | C will n | ION- | RD, | 1 Fi | ERG -625 | Vitne y Wi y Wi |
| SE CU ST/ | SEC | <u> </u> | TWP 22S RGE 14W | MEL | s, LLC | RN | 30 | 1 | | ry V ndar ndar |
| /ell eld ounty tate | Permanent Datum Log Measured From | В | GROUND LEVEL Elevation 1912' KELLY BUSHING | Elevation K.B. 1923' D.F. N/A | Service erpretat | nts BLE C | BENI ST TC INTO | | IEER | Prima Secol Secol Secol |
| | | 3/31 | 3/31/2017 | | irelir ny ir | mm ILA | NE | NG | | |
| Run Number | | 0 | ONE | | r Wi m a | Sec. 200. 20 | 3 \ | HII | | |
| Depth Driller | | ω | 3800' | | nee g fro | 52. 277 | 9, | JS | | |
| Depth Logger | 2 | ຸ່ພ | 3793 | | Pio |)T | | BL | | V |
| Top Log Interval | | A (| 400' | | and | NC | w | LY | | rev |
| Casing Driller | | 8.625" | @ 404' | | ion, | S | H | EL | | s C |
| Casing Logger | | 1 | 400' | | etat | TE | ТС | K | | ce |
| Type Fluid in Hole | | CHE : | CHEMICAL | | terpr | NC | ΓH | m: | /01 /w/ | ervi |
| Salinity,ppm CL | | 9 | 9000 | | iy in | DE | U | ro | | Se |
| Density / Viscosity | | 9.2 | 63 | | of ar | 'A I | SC | d F | ۹N | gy |
| PH / Fluid Loss | | | | | SS (| N/ | | Ire | HA | |
| Rm @ Meas. Temp | | 0.70 | | | ectne | | | ası | Ţ | |
| Rmf @ Meas. Temp | | 0.53 | @ 62 | | orre | | | / <mark>le</mark> a | | |
| Rmc @ Meas. Temp | | 0.95 | @ 62 | | or o | | | og N | | one SC |
| Rm @ BHT | | 0.38 | © 114 | | ons a racy | | | Lc | | |
| Operating Rig Time | | 3 H | J | | tatio | | | | | er: r: r: |
| Max Rec. Temp. F | | | 114 | | pre ne a | | | | | ato ato |
| Equipment Number | | | 91 | | nter | | | | | gin era era |
| Location Boorded By | | | | | | | | | | Eng Ope Ope |
| Kecoraea By Witnessed By | | JUSTIN | JUSTIN PRATER | | | | | | | 0 |
| | | | | | Ş | | | | | |

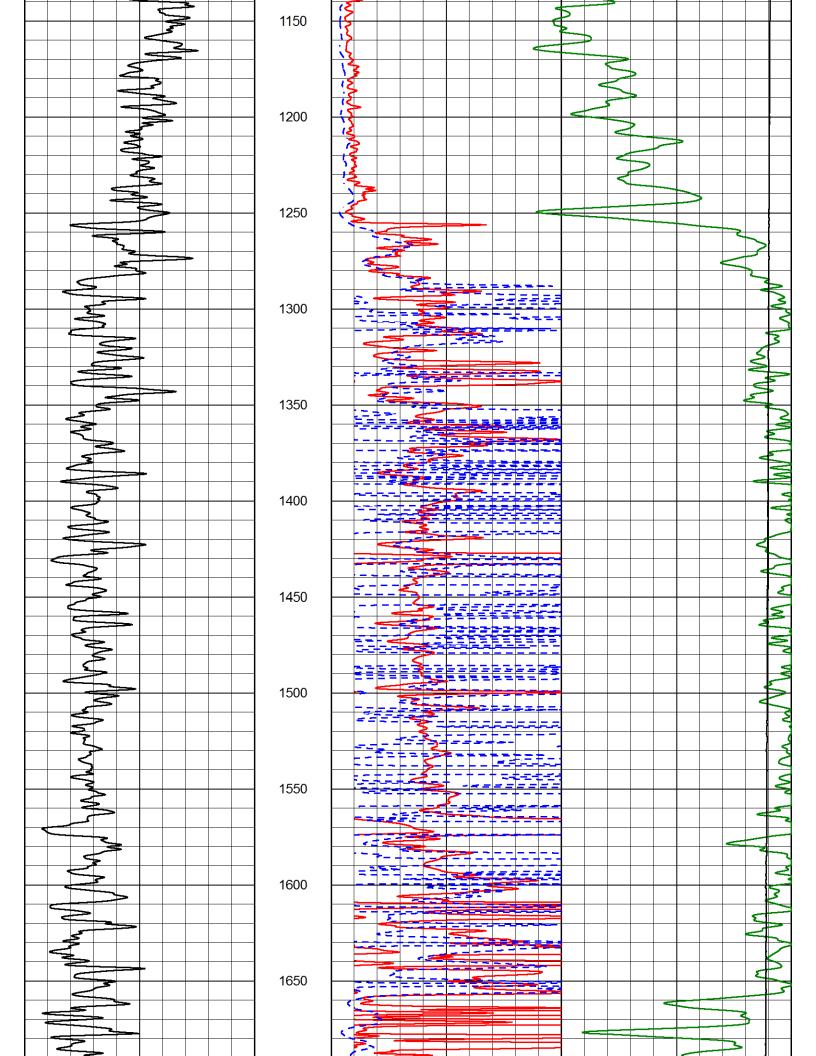
| l | ₋og Vari | ables ^{Data} | baseC:\Program set_field/well/S | hData\Warrior\D TKML/pass4.1/_ | ata\stratakan_se _vars_ | eward sw_1-1.dl | C | |
|---|-----------|-----------------------|------------------------------------|-----------------------------------|----------------------------|------------------|-------|------------------|
| | | | | Top - | Bottom | | | |
| | А | BOREID in | BOTTEMP degF | CASEOD in | CASETHCK in | FLUIDDEN g/cc | М | MATRXDEN g/cc |
| | 1 | 7.875 | 114 | 5.5 | 0 | 1 | 2 | 2.71 |
| | NPORSEL | PERFS | SNDERR mmho/m | SNDERRM mmho/m | SPSHIFT mV | SRFTEMP degF | SZCOR | TDEPTH ft |
| | Limestone | 0 | 0 | 0 | 145 | 0 | Off | 3793 |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

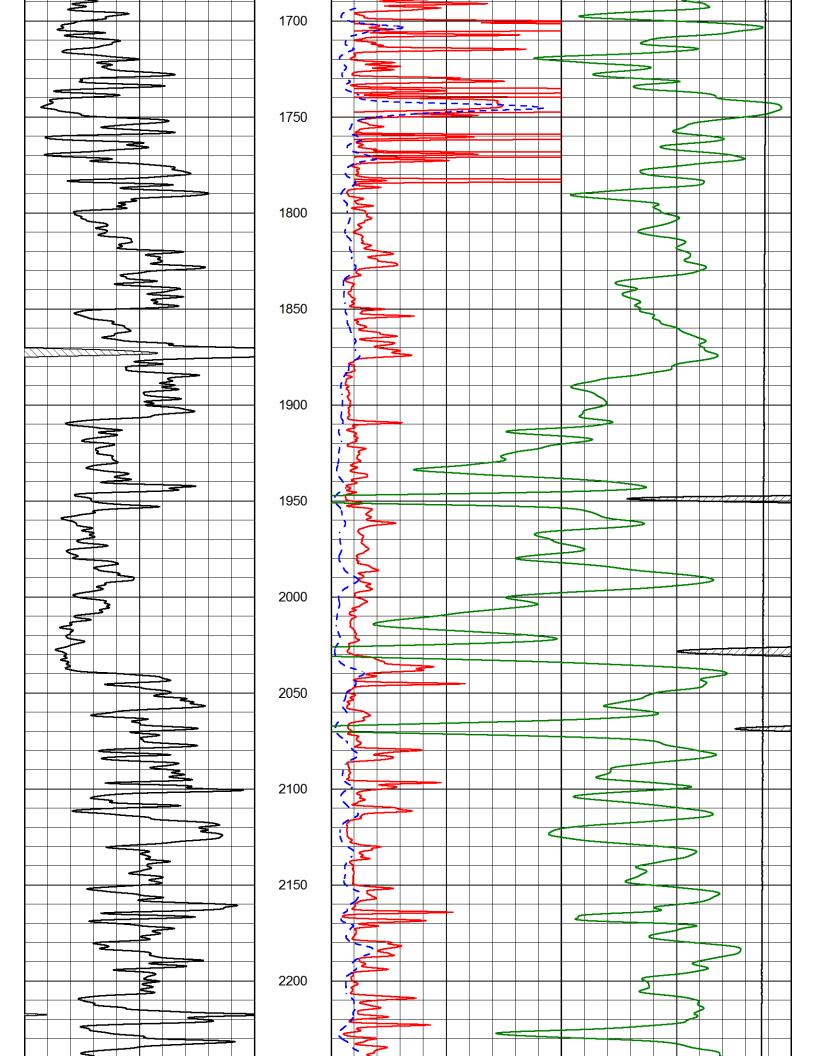
| Sensor | Offset (ft) | Schematic | Description | Length (ft) | O.D. (in) | Weight (lb |
|--------------------|-------------------------|-----------|---|-------------|-----------|------------|
| GR | 40.58 | | GR-M&W (89) | 3.00 | 3.50 | 50.00 |
| CNLSC CNSSC | 37.48 — 36.73 — | | CNT-M&W (207-MW) | 5.50 | 3.50 | 100.00 |
| LSD DCAL SSD | 28.43 28.42 27.93 | | CDL-M&W (90-1031) | 8.50 | 4.00 | 250.00 |
| MCAL MI MN | 19.83 19.83 19.83 | | ML-PSIML (PSI-01) GO Micro log tools converted to Simplec electronics | 7.58 | 4.00 | 65.00 |
| RLL3F RLL3 | 15.80 | | | | | |

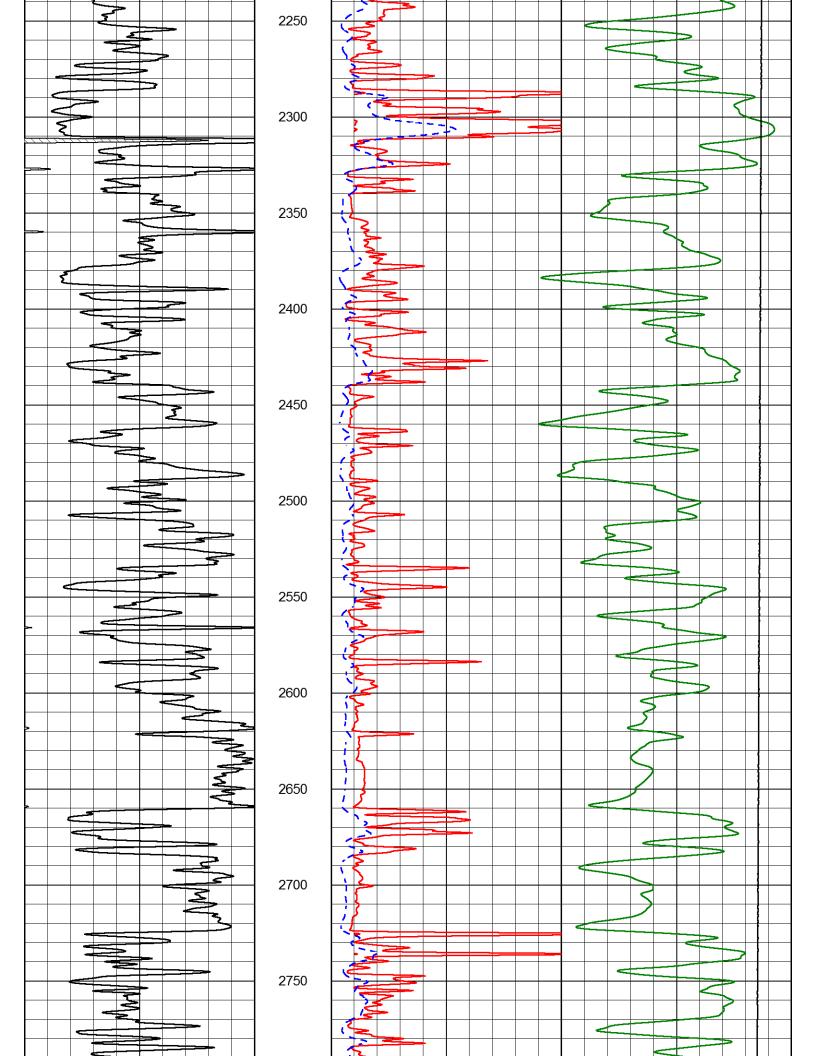
| | | | ——DIL-M&W (PSI 13) | 18.50 | 3.50 | 220.00 |
|------|------|--------------------------------|--|-------|------|--------|
| CILD | 8.00 | | | | | |
| | | | | | | |
| CILM | 4.70 | _ | | | | |
| | | | | | | |
| SP | 0.20 | ~ L | _ | | | |
| | | Dataset: | stratakan_seward sw_1-1.db: field/well/STKML/pass4 | 1.1 | | |
| | | Total length: Total weight: | 43.08 ft 685.00 lb | | | |
| | | O.D.: | 4.00 in | | | |

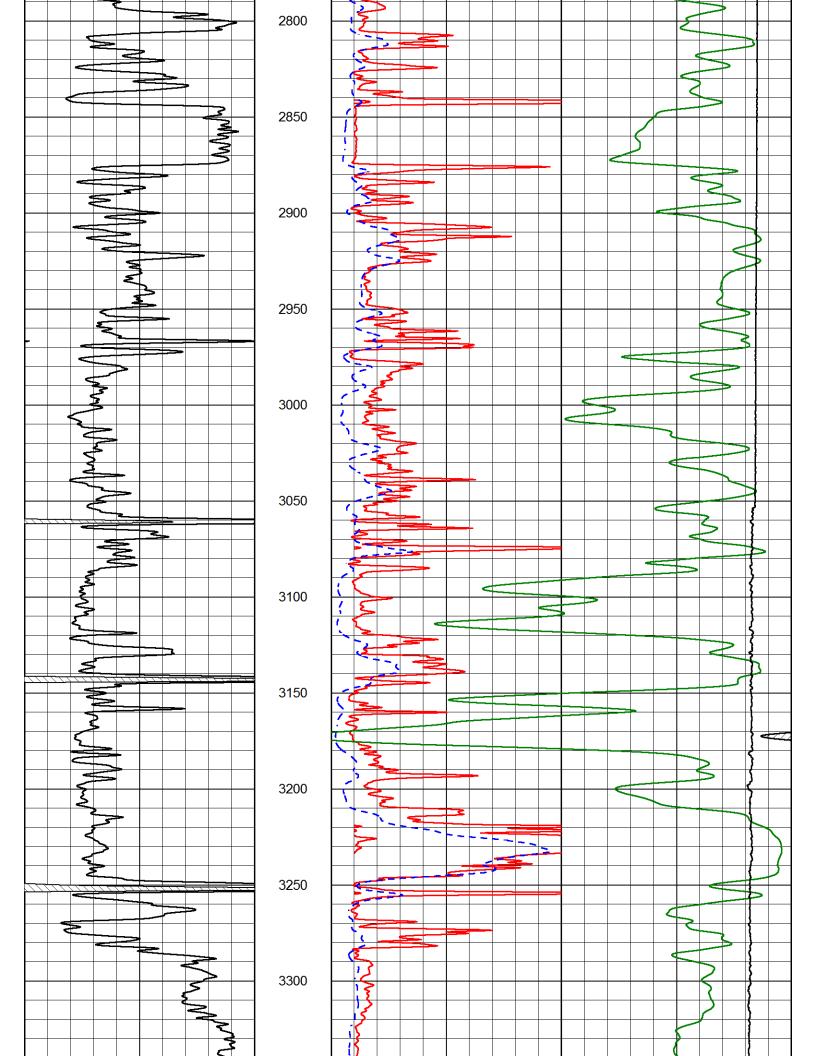


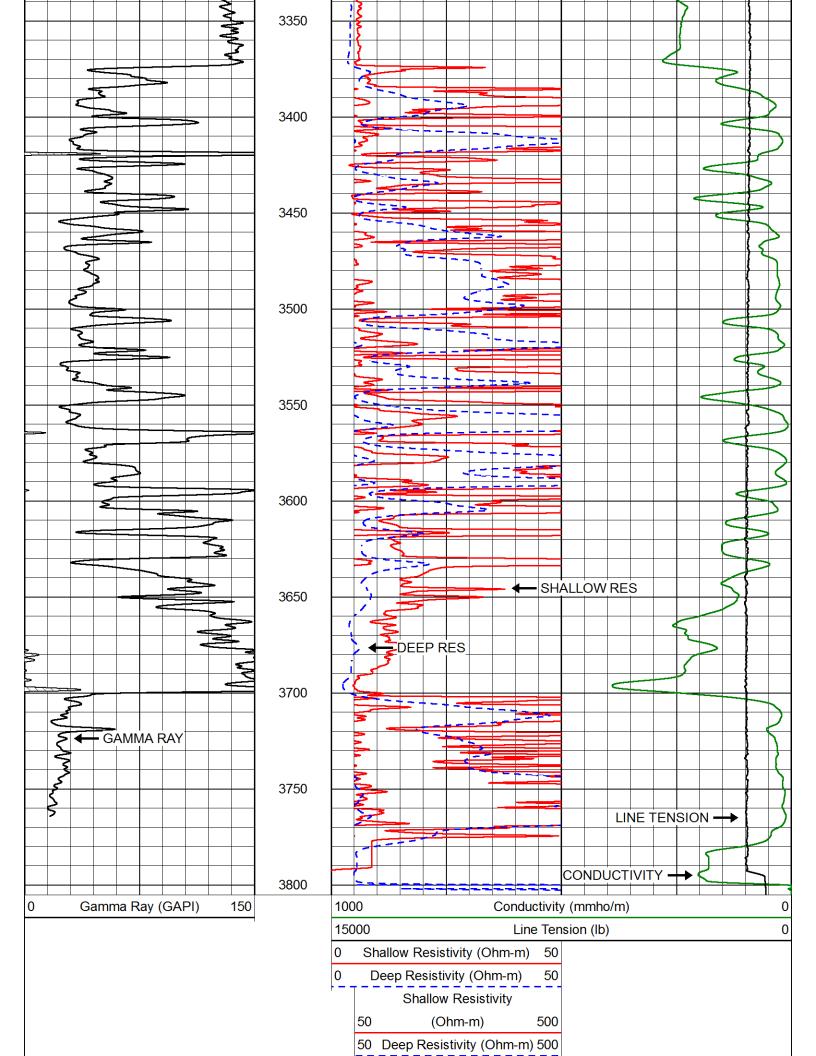


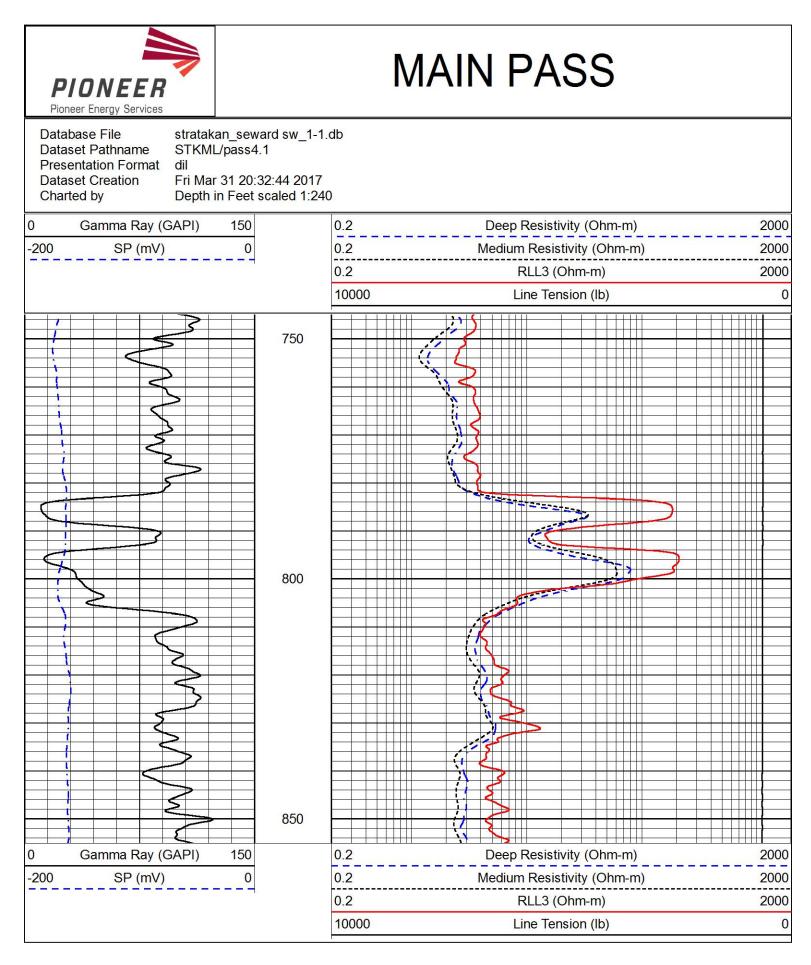






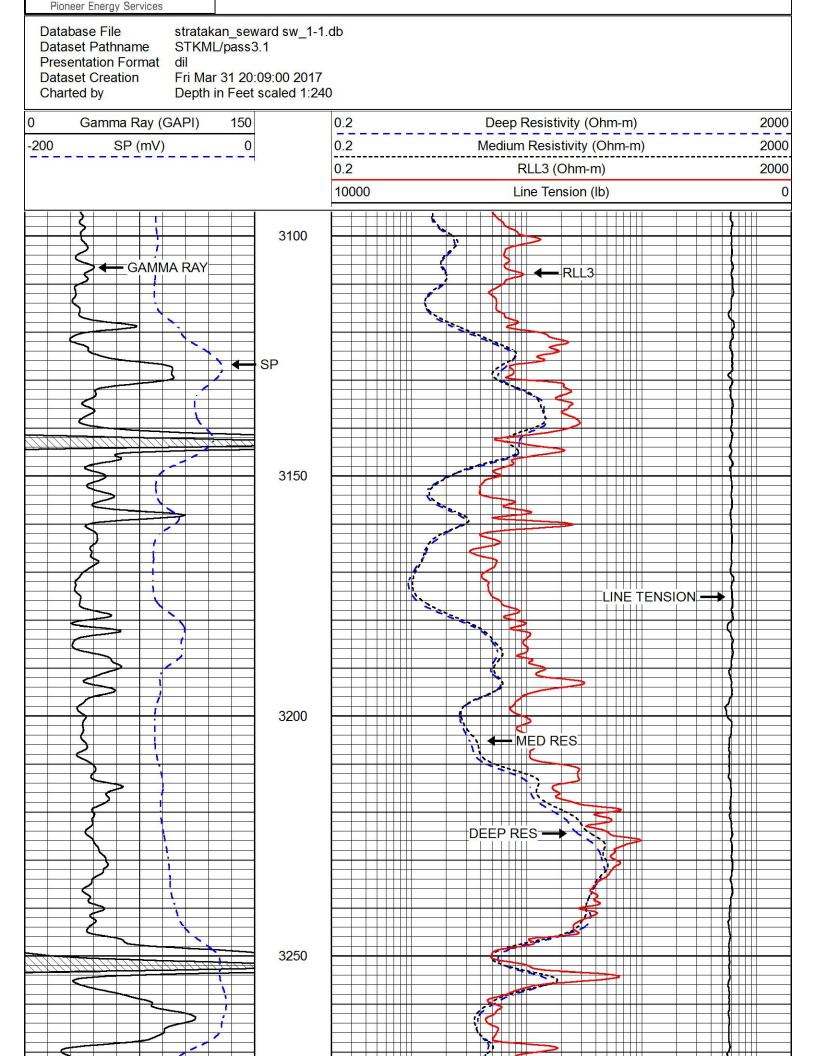


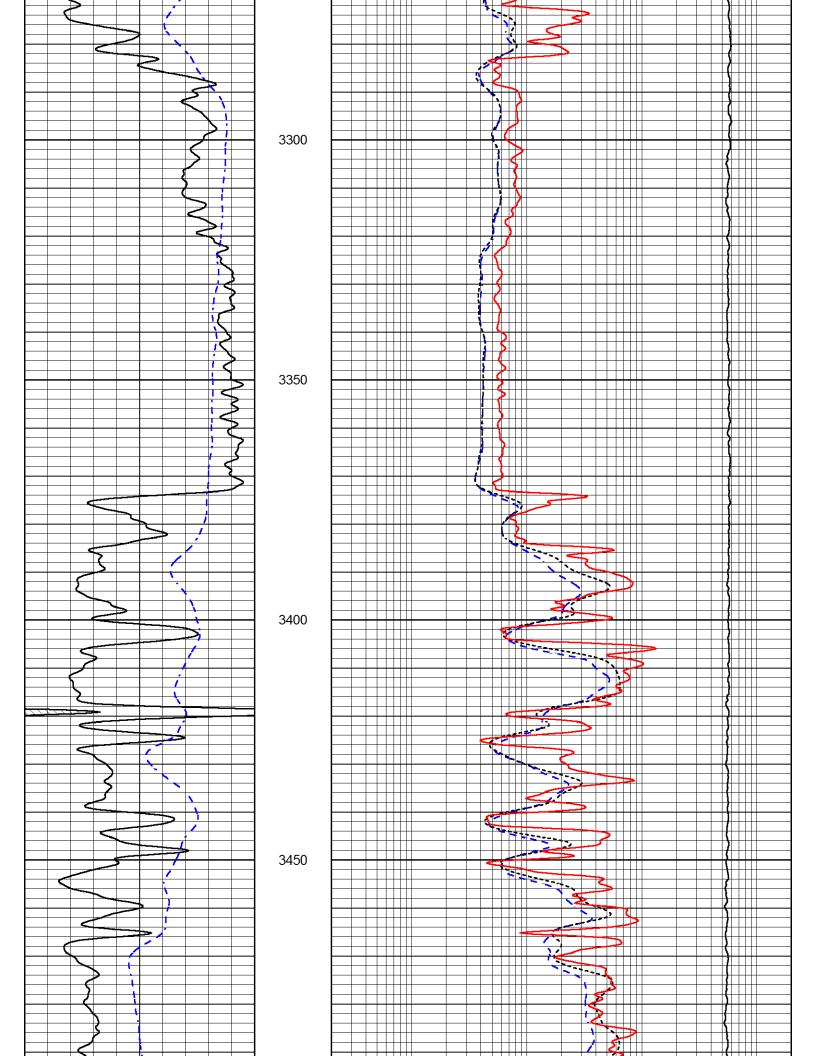


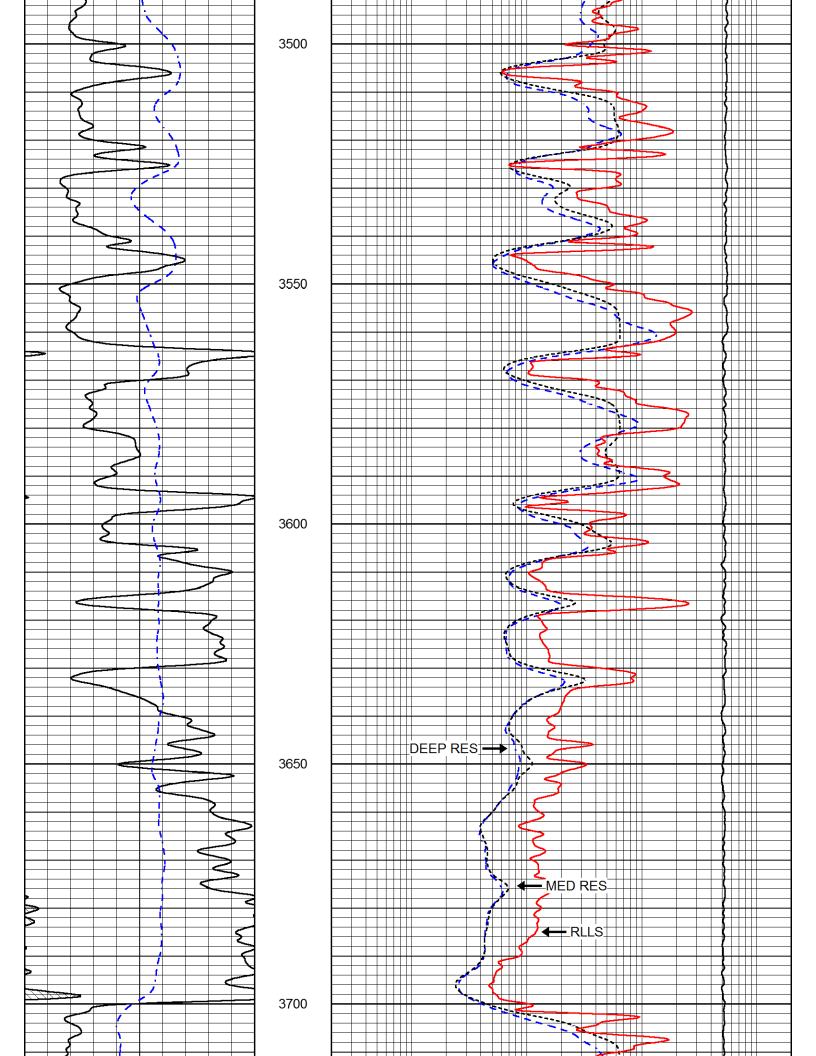


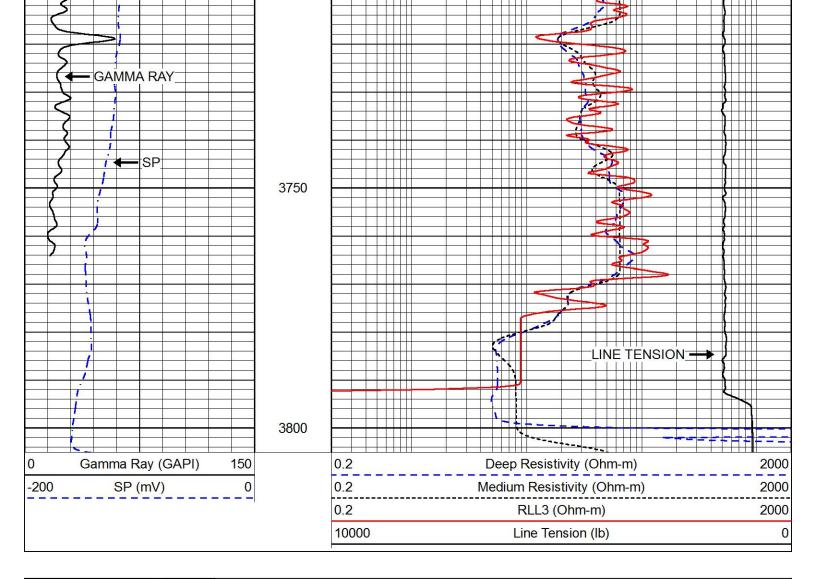


MAIN PASS









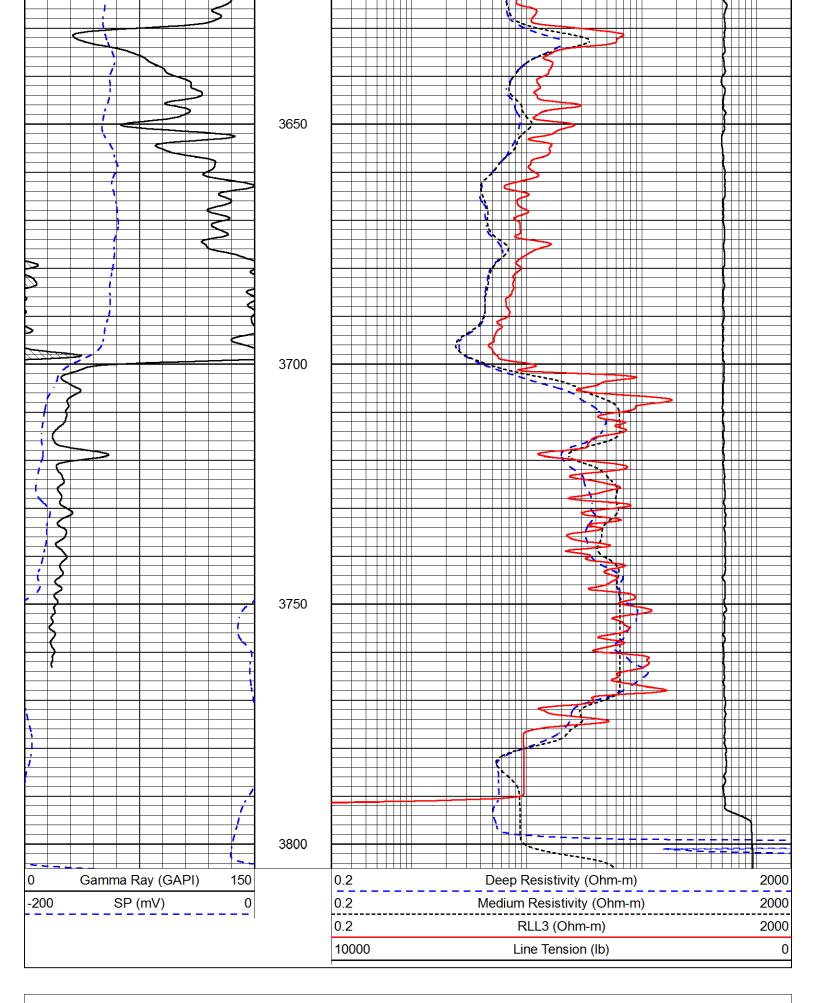


REPEAT SECTION

Database FilestratalDataset PathnameSTKMPresentation FormatdilDataset CreationFri MaCharted byDepth

stratakan_seward sw_1-1.db STKML/pass2.1 dil Fri Mar 31 20:14:20 2017 Depth in Feet scaled 1:240

0 Gamma Ray (GAPI) 150 0.2 Deep Resistivity (Ohm-m) 2000 200 SP (mV) 0 0.2 Medium Resistivity (Ohm-m) 2000 RLL3 (Ohm-m) 0.2 2000 10000 Line Tension (lb) 0 3600 V Т



Database File Dataset Pathname

stratakan_seward sw_1-1.db STKML/pass3.1 **Calibration Report**

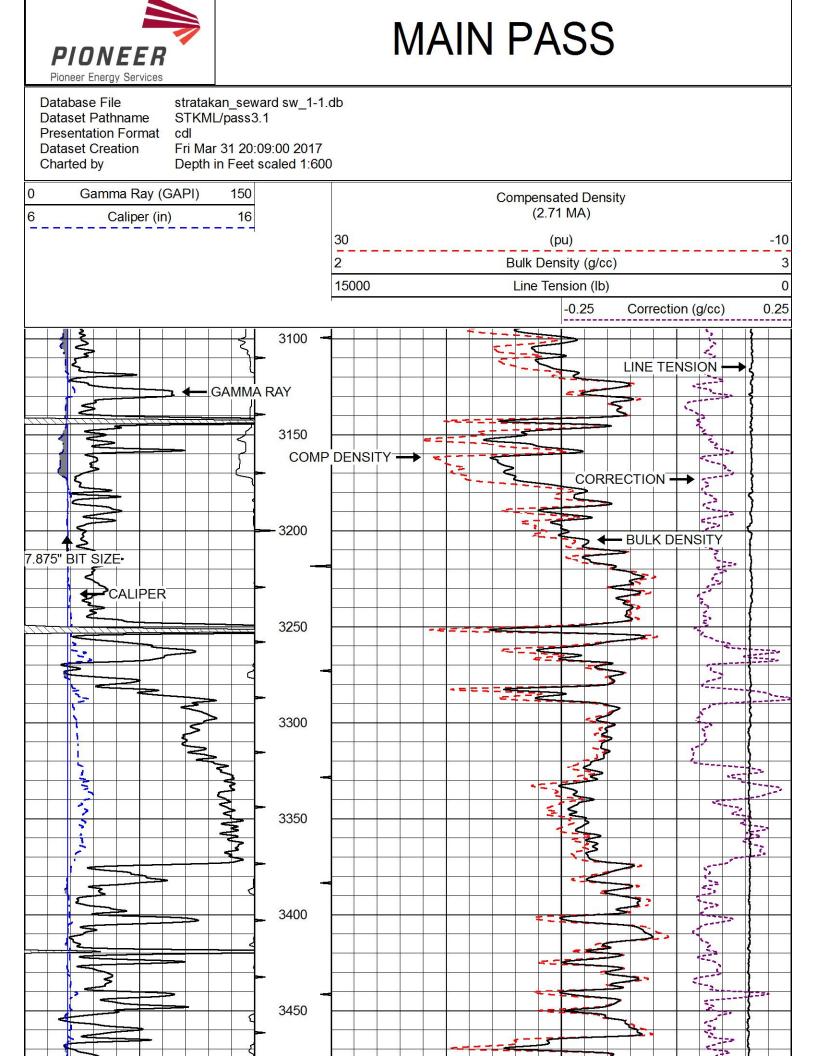
| | | | Dual In | duction Cali | ibration | Report | | | | |
|---|-----------------------------|--|---|--|--|---|--|-------------------------|----------------|--------------------------------|
| | | Model: ation Perform | ed: | | | l 13-M&W Mar 31 18: | 54:31 2017 | | | |
| | | Readings | | | R | eferences | | | Resi | ults |
| Loop: | Air | Loop | | Air | , | Loop | | Ga | in | Offset |
| Deep Medium | 166.796 142.009 | 835.089 1348.560 | | | 0.000 | 255.800 255.800 | mmho/m mmho/m | | 0.900 0.850 | -23.000 15.000 |
| | | | Micr | olog Calibra | ation Re | port | | | | |
| | Serial- Perfor | Model: med: | | | | I-01-PSIML Mar 31 18:4 | | | | |
| | | Readings | | | R | eferences | | | Resu | ults |
| | Zero | Cal | | Zero | 0 | Cal | | m | 1 | b |
| Normal Inverse Caliper | 0.0000 0.0000 1.0001 | 1.0000 1.0000 1.1397 | | 0.0 | 0000 0000 5000 | 1.0000 1.0000 18.5000 | Ohm-m Ohm-m in | 32500. 30000. 70. | | -0.9500 -0.3000 -65.5350 |
| | | (| Compensat | ted Density | Calibrat | tion Report | | | | |
| | | Model: e / Verifier: | | | | 1031-M&W 955B / 2ci | 1 | | | |
| | Maste | r Calibration F | Performed: | | Fri | Mar 31 18:4 | 42:23 2017 | | | |
| Master Calibratio | | r Calibration F | Performed: | | Fri | Mar 31 18:4 | 42:23 2017 | | | |
| Master Calibratio | | r Calibration F | Performed: | | | Mar 31 18:4 | 42:23 2017 | etector | | |
| Master Calibratio Magnesium Aluminum | | | Performed: g/cc g/cc | | | | Near De | 25.27 | cps | |
| Magnesium | on | Density 1.755 | g/cc g/cc | | Far | Detector 5174.18 963.17 | Near De | 25.27 37.42 | | |
| Magnesium | on | Density 1.755 2.665 | g/cc g/cc | | Far Der | Detector 5174.18 963.17 | Near De 642 | 25.27 37.42 | | |
| Magnesium | on | Density 1.755 2.665 Spine Angle | g/cc g/cc | | Far Der | Detector 5174.18 963.17 nsity/Spine | Near De 642 | 25.27 37.42 | | |
| Magnesium Aluminum Small Ring | on | Density 1.755 2.665 Spine Angle Size 6.00 16.00 | g/cc g/cc = 74.55 in in | ed Neutron | Far Der R | Detector 5174.18 963.17 hsity/Spine eading 1.83 1.48 | Near De 642 403 Ratio = 0.52 | 25.27 37.42 | | |
| Magnesium Aluminum Small Ring | on | Density 1.755 2.665 Spine Angle Size 6.00 16.00 | g/cc g/cc = 74.55 in in Compensat Serial Nun Tool Mode | ed Neutron | Far Der R Calibrat | Detector 5174.18 963.17 nsity/Spine eading 1.83 1.48 tion Report | Near De 642 403 Ratio = 0.52 | 25.27 37.42 | | |
| Magnesium Aluminum Small Ring Large Ring | on | Density 1.755 2.665 Spine Angle Size 6.00 16.00 | g/cc g/cc = 74.55 in in Compensat Serial Nun Tool Mode | ed Neutron nber: l: Performed | Far Der R Calibrat | Detector 5174.18 963.17 nsity/Spine eading 1.83 1.48 tion Report | Near De 642 403 Ratio = 0.52 30:30 2017 | 25.27 37.42 | | |
| Magnesium Aluminum Small Ring Large Ring | on | Density 1.755 2.665 Spine Angle Size 6.00 16.00 (| g/cc g/cc = 74.55 in in Compensat Serial Nun Tool Mode Calibration Readings 6240.00 | ed Neutron nber: l: Performed | Far Der R Calibrat 207 M& : Fri | Detector 5174.18 963.17 nsity/Spine eading 1.83 1.48 tion Report 7-MW W Mar 31 10:3 | Near De 642 403 Ratio = 0.52 30:30 2017 | 25.27 37.42 22 | | |
| Magnesium Aluminum Small Ring Large Ring | on etector hort Space | Density 1.755 2.665 Spine Angle Size 6.00 16.00 (| g/cc g/cc = 74.55 in in Compensat Serial Nun Tool Mode Calibration Readings 6240.00 | ed Neutron hber: l: Performed | Far Der R Calibrat 207 M& : Fri Target 1000.00 | Detector 5174.18 963.17 nsity/Spine eading 1.83 1.48 tion Report 7-MW W Mar 31 10:3 | Near De 64/ 403 Ratio = 0.52 30:30 2017 Norma 1.6025 | 25.27 37.42 22 | | |

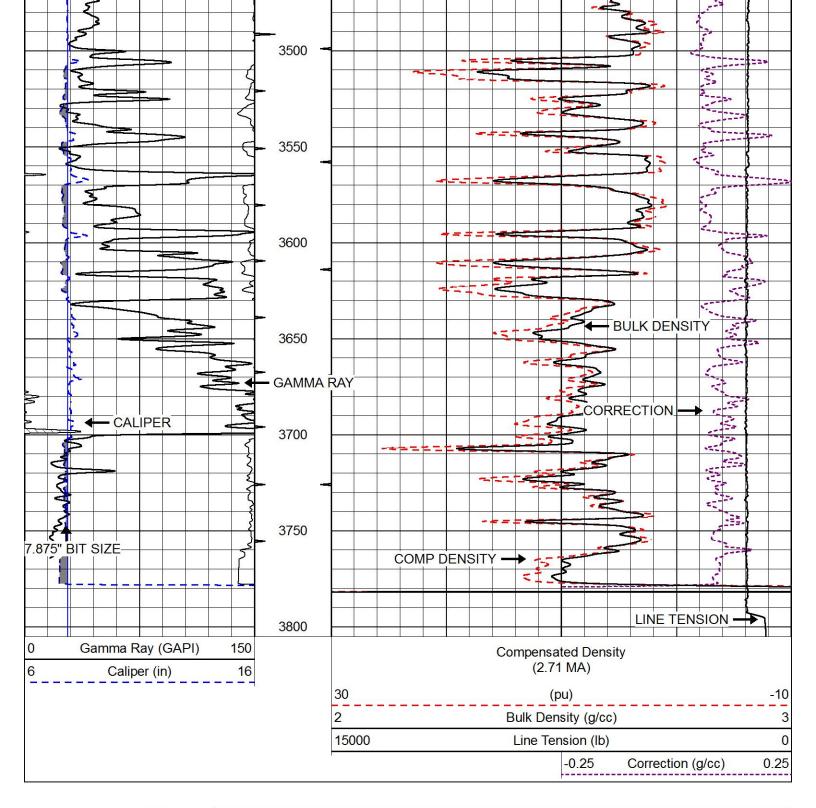
| Sensitivity: | 0.6000 | GAPI/cps |
|------------------------|--------------------|----------|
| Calibrator Reading: | 1.0 | cps |
| Background Reading: | 0.0 | cps |
| Calibrator Value: | 1.0 | GAPI |
| Calibration Performed: | Fri Mar 31 18:42:3 | 2 2017 |

| PIONEER | Company Well Field County | STRATAKAN EXPLORATION, LLC SEWARD SW #1-1 CURTIS STAFFORD |
|-------------------------|------------------------------------|--|
| Pioneer Energy Services | State | KANSAS |

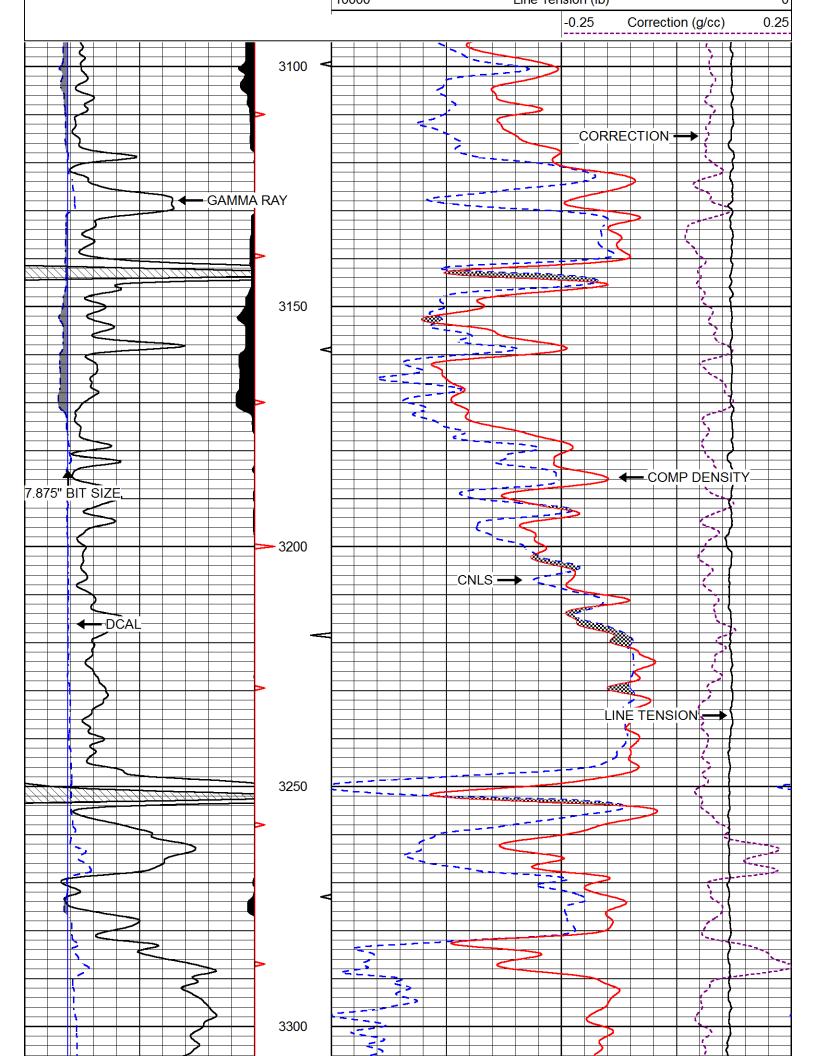
| | Run No. Bit | Witnessed By | | Equipment Loc: | Rig Tin | Level May Rec Temp F | Density | Salinity, PPM CL | Type Fluid In Hole | Top Logged Interval | Rottom Logger | Depth Longer | Denth Driller | Type I on | Run Number | Date | Compar Well Field County State | SE | TRATA EWARI JRTIS TAFFC ANSAS | D SI | | | ATIC | DN, LLC | Pior | NUID | |
|---|---------------------|---------------|------------|----------------|----------------|-------------------------|------------|------------------|--------------------|---------------------|---------------|---------------|---------------|------------------|----------------|------------------------|--|-----------------|---|---------------------------|--------------------|-------------------|------------------|----------------------------|------------|--------|--------------------|
| 40,4 | From | | | Location | Û | | | | | | ena | | | | | | Permanent Datum Log Measured From Drilling Measured From | SEC | | Location: | County | Field | Well | Company | y Services | IDNEED |]// |
| G | To | JUSTIN PRATER | D. SCHMIDT | 91 CC | 3 HOURS | 114 | 9.2 | 9000 | CHEMICAL | 3100' | 3764 | 3793' | 3800' | CNI /CDI | ONE | 3/31/2017 | m From | | 1613' FSL | API # | STAFFORD | CURTIS | SEWAR | STRAT/ | | | \ // |
| | Size Wgt. | TER | TC | COLBY | | | | | | | | | | | | 7 | GROUND LEVEL KELLY BUSHING KELLY BUSHING | TWP 22S RGE 14W | 1613' FSL & 405' FEL | API #: 15-185-23983-00-00 | ORD | | SEWARD SW #1-1 | AKAN EX | | | DUAL |
| | t. From | | | | | | | | | | | | | | | | Elevation 1912 | 4W | | 3983-00-00 | State k | | <u>-</u> | KPLORA | | LOG | COMP P |
| 4 | | | | | | | | | | | | | | | | | 2' Elevation D.F. N/A G.L. 1912' | | DIL/MEL | Other Services | KANSAS | | | STRATAKAN EXPLORATION, LLC | | | DUAL COMP POROSITY |
| All interpretat guarantee the acc or e | ions are uracy c | or co | rrec | ed o | ss of or su | f any istai | / intended | erpre by a | etat inyo | ion, one | ano res | d Pi ultir | | eer fron C | M Dor Al | reli ny mn L/ | | es, LL ion m | C will n ade by | ot be any | liable of our o | or res officer | ponsik s, age | ole for an | y loss, | costs, | |
| | Log | ı M | ea | | rec | ł F | ron | n: | KI | ΞL | LY | В | U | SF | /E | NC NC | EST TO T INTO | 1 | 1 F1 | t. Al | bove | Per | rmar | nent D | atun | 1 | |
| | | | | | | | W | ww | /.p | ior | nee | ere | | | | | DNEER | | NERG 5-625 | | | VICI | ΞS | | | | |
| You Engineer: Operator: Operator: Operator: | | | | | | jy : | Sei | rvic | e | s C | re | W | | | | | Prima Seco Seco Seco | nda nda | Witne iry Wi iry Wi | ss: tne tne | SS: SS: | | | <u>Witnes</u> NPRA | | | |

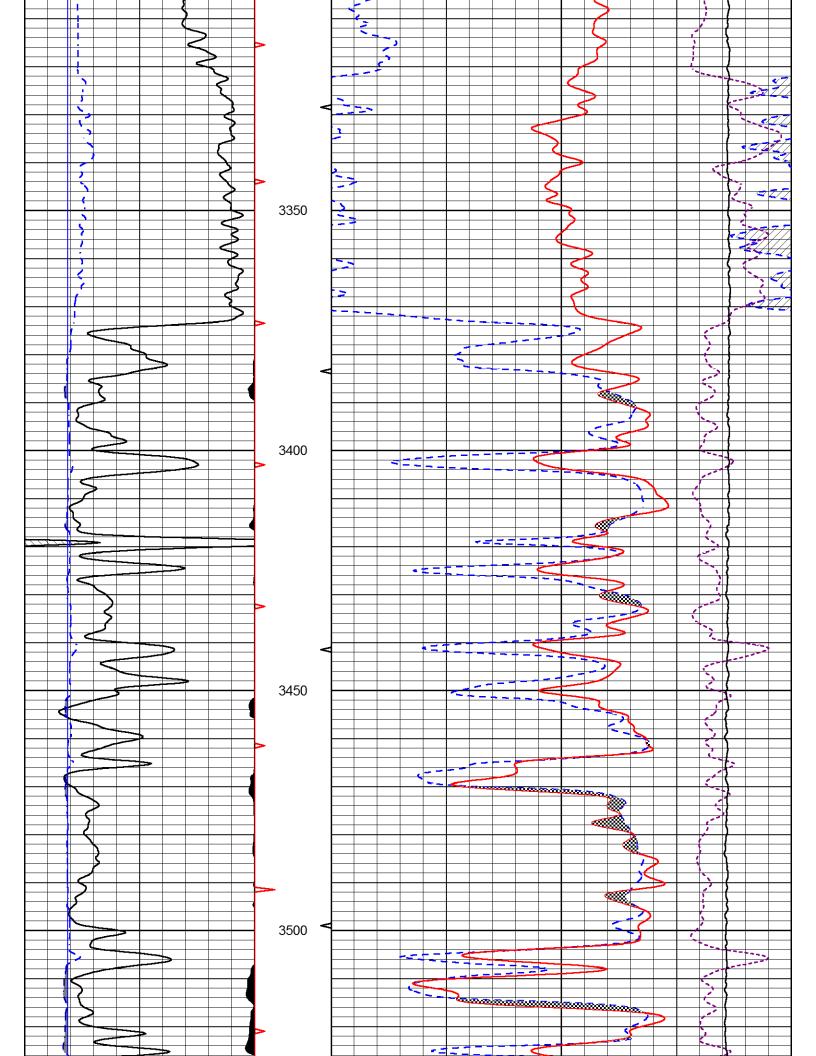


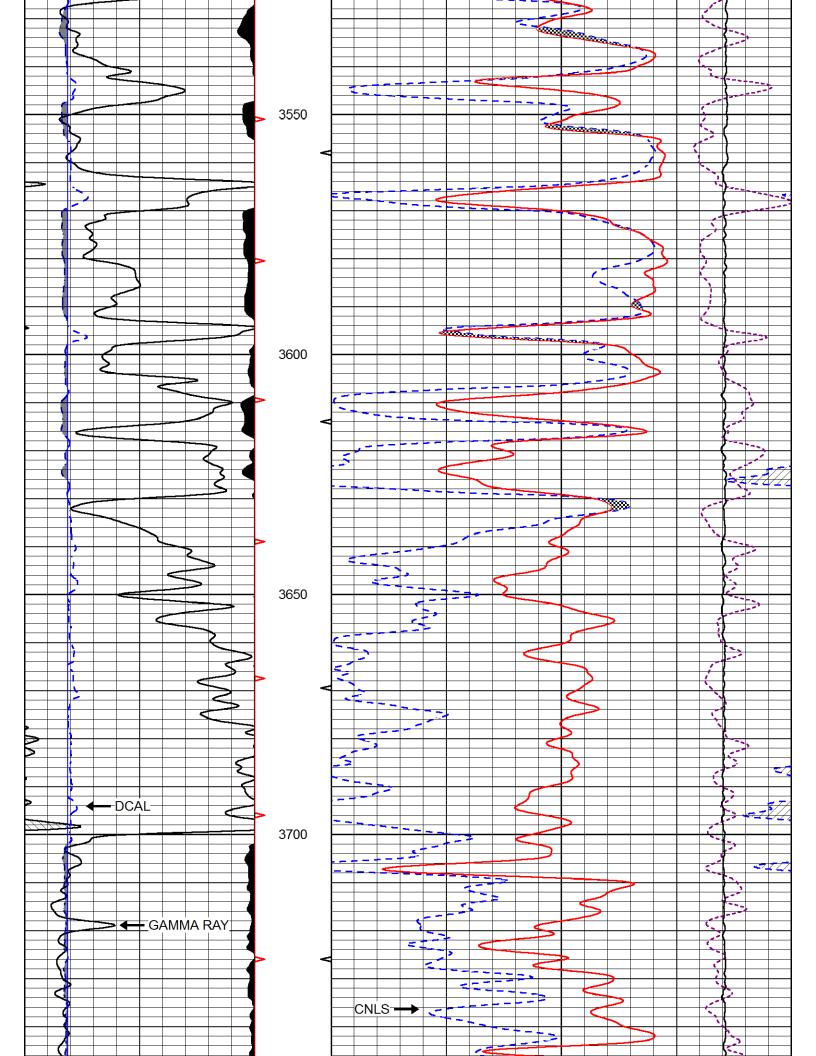


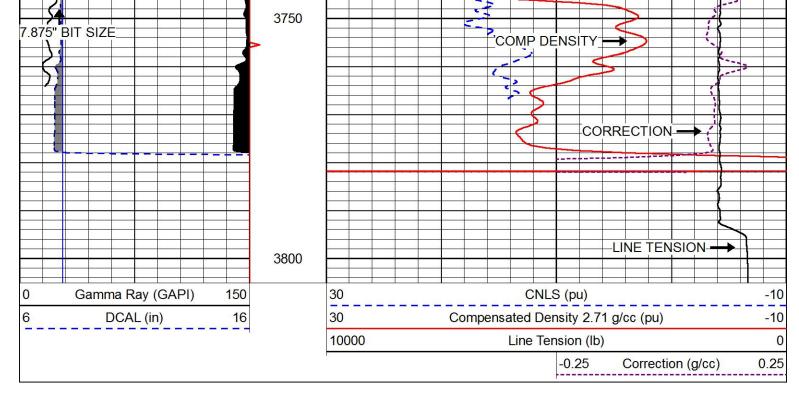


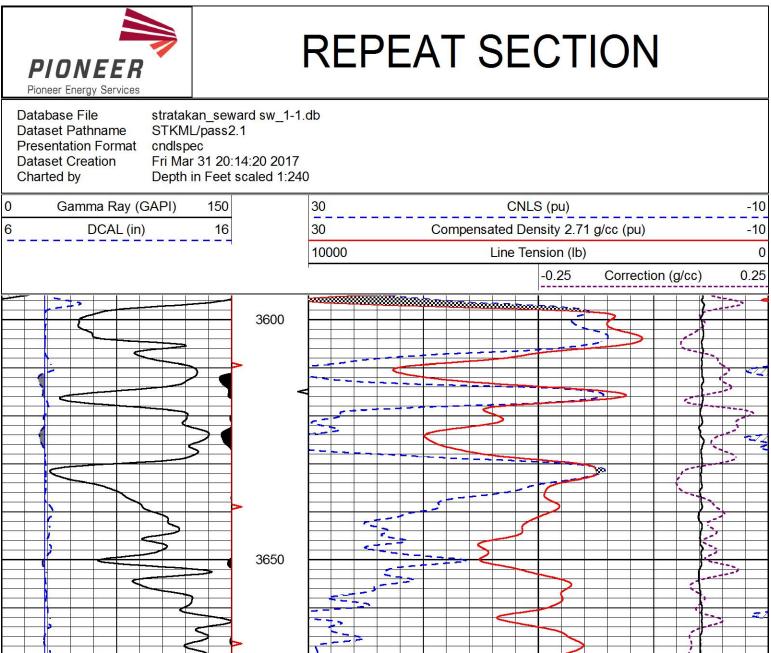
| PIONEE Pioneer Energy Servio | 177. TO 1 | ſ | MAIN PASS | |
|--|--------------|-------|------------------------------------|-----|
| Database File Dataset Pathname Presentation Form Dataset Creation Charted by | | 2017 | | |
| 0 Gamma Ra | y (GAPI) 150 | 30 | CNLS (pu) | -10 |
| 6 DCAL | (in) 16 | 30 | Compensated Density 2.71 g/cc (pu) | -10 |
| | | 10000 | Line Tension (lb) | 0 |

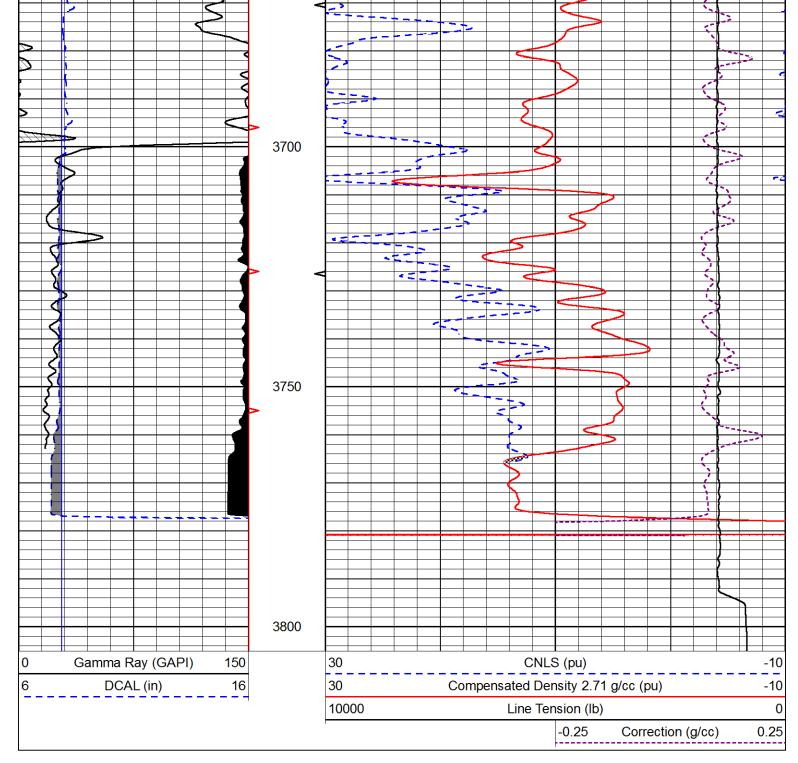












| | (| Calibration Report | t | | | |
|---------|---|--|--|--|--|--|
| STKML/p | ass3.8 | · | | | | |
| | Dual Inc | luction Calibratior | n Report | | | |
| | | | | 54:31 2017 | | |
| | Readings | F | References | | Res | ults |
| Air | Loop | Air | Loop | | Gain | Offset |
| 166.796 | 835.089 | 0.000 | 255.800 | mmho/m | 0.800 | -20.000 |
| - | STKML/p Fri Mar 3 Serial-I Calibra | stratakan_seward sw_1-1.db STKML/pass3.8 Fri Mar 31 19:56:34 2017 Dual Inc Serial-Model: Calibration Performed: Readings Air Loop | stratakan_seward sw_1-1.db STKML/pass3.8 Fri Mar 31 19:56:34 2017 Dual Induction Calibration Serial-Model: Provide Calibration Performed: Fri Readings Air Loop Air | STKML/pass 3.8 End Fri Mar 31 19:56:34 2017 Dual Induction Calibration Report Serial-Model: PSI 13-M&W Calibration Performed: PSI 13-M&W Readings References Air Loop Air Loop | stratakan_seward sw_1-1.db STKML/pass3.8 Fri Mar 31 19:56:34 2017 Dual Induction Calibration Report Serial-Model: PSI 13-M&W Calibration Performed: PSI 13-M&W Readings References Air Loop Air Loop | stratakan_seward sw_1-1.db STKML/pass3.8 Fri Mar 31 19:56:34 2017 Dual Induction Calibration Report Serial-Model: PSI 13-M&W Calibration Performed: Fri Mar 31 18:54:31 2017 Readings References Air Loop Air Loop |

| | | | Micr | olog Calibration | Report | | | |
|----------------------------------|----------------------------|--|--|----------------------------|---|----------------------|-------------------------------------|--------------------------------|
| | Serial Perfor | -Model: rmed: | | | PSI-01-PSIML Fri Mar 31 18: | | | |
| | | Readings | | | References | | Res | ults |
| | Zero | Cal | | Zero | Cal | | m | b |
| Normal Inverse Caliper | 0.0000 0.0000 1.0001 | 1.0000 1.0000 1.1397 | | 0.0000 0.0000 6.5000 | 1.0000 | Ohm-m Ohm-m in | 32500.0000 30000.0000 70.0000 | -0.9500 -0.3000 -65.5350 |
| | | | Compensat | ed Density Cali | oration Report | | | |
| | Sourc | -Model: e / Verifier: er Calibration | Performed: | | 90-1031-M&W 16955B / 2ci Fri Mar 31 18: | | | |
| Master Calibration | on | | | | | | | |
| | | Density | | | ar Detector | Near De | etector | |
| Magnesium Aluminum | | 1.755 2.665 | g/cc g/cc | | 5174.18 963.17 | | 25.27 cps 37.42 cps | |
| | | Spine Angle | = 74.55 | | Density/Spine | Ratio = 0.52 | 22 | |
| | | Size | | | Reading | | | |
| Small Ring Large Ring | | 6.00 16.00 | in in | | 1.83 1.48 | | | |
| | | | Compensat | ed Neutron Cali | bration Report | | | |
| | | | Serial Nun Tool Mode Calibration | l: | 207-MW M&W Fri Mar 31 10: | 30:30 2017 | | |
| D | etector | | Readings | Tar | get | Norma | lization | |
| | hort Space ong Space | | | | 0.00 cps 0.00 cps | 1.6025 1.9500 | | |
| | | | Gamm | a Ray Calibratio | on Report | | | |
| Serial N Tool Mo Calibrati | | ned: | 89 M&\ Fri I | N Mar 31 18:42:32 | 2017 | | | |
| Calibrate | or Value: | | 1.0 | | GAPI | | | |
| | und Readir | | 0.0 1.0 | | cps cps | | | |
| Sensitiv | i t | | 0.60 | 000 | GAPI/cps | | | |



Well

Company STRATAKAN EXPLORATION, LLC SEWARD SW #1-1



Field County State

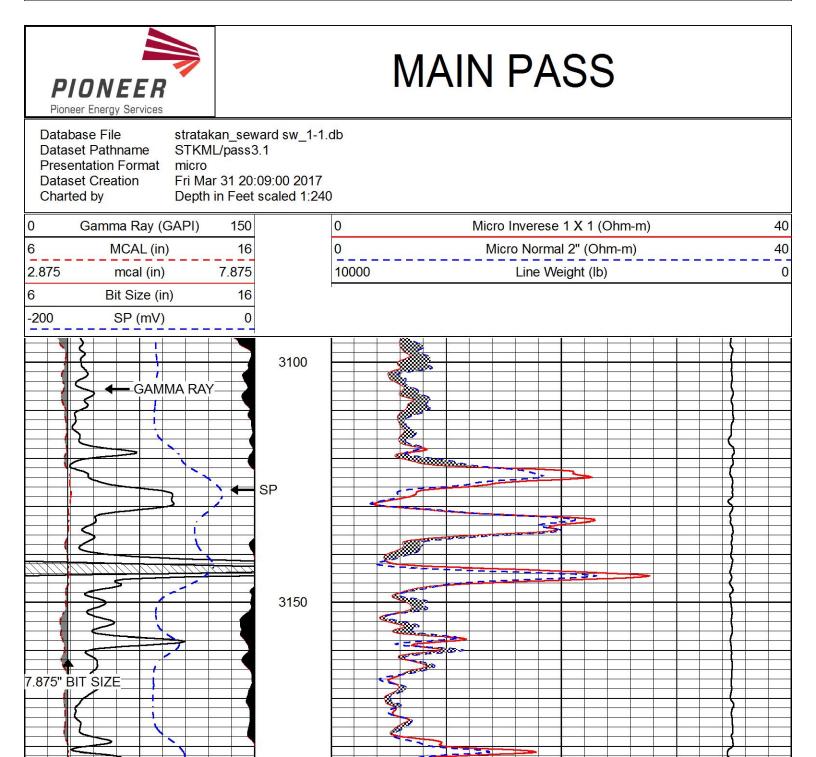
CURTIS STAFFORD KANSAS

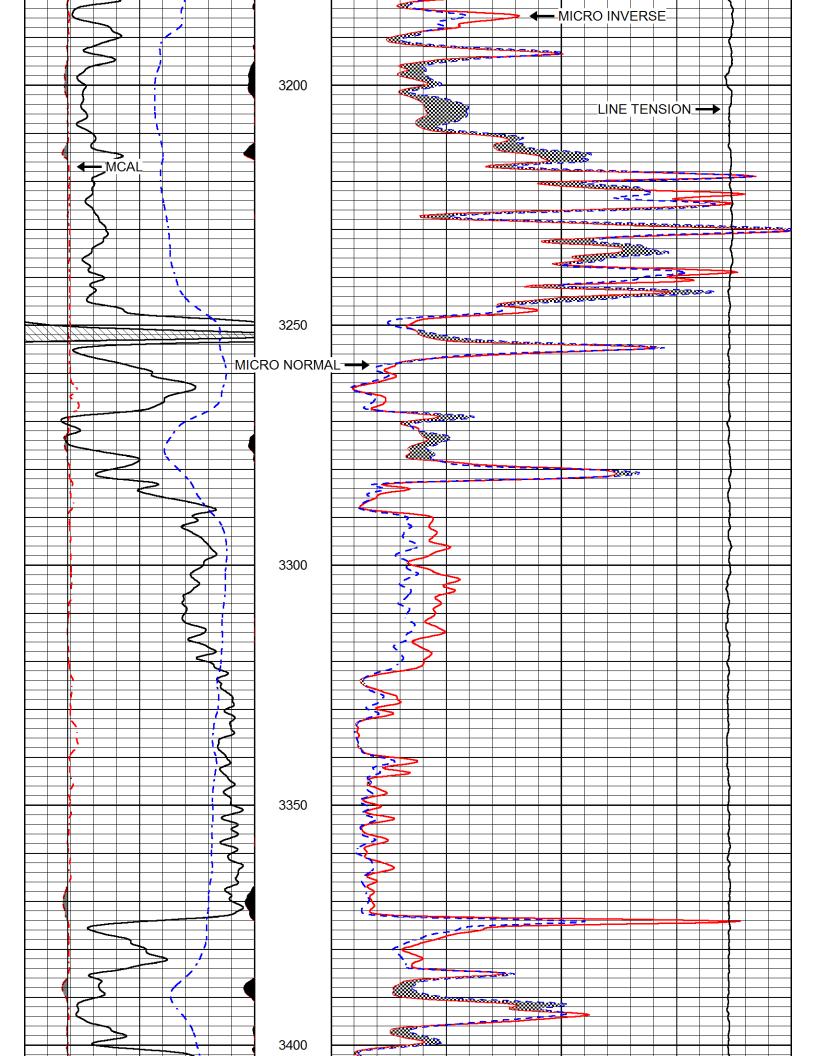
| Company STRATAKAN EXPLORATION, LL Weil SEWARD SW#1-1 Field CURTIS State County STAFFORD State County State County State County State County State County State County State State State County State County State State State County State County State State State County State County State State <th>Pior D</th> <th>IONEER Neer Energy Services</th> <th></th> <th>MICRORESISTIVITY LOG</th> <th>INITY</th> <th>any loss, costs, damages,</th> <th></th> | Pior D | IONEER Neer Energy Services | | MICRORESISTIVITY LOG | INITY | any loss, costs, damages, | |
|---|----------------------------------|---|----------|----------------------------|----------------|---------------------------|-----------|
| By State CANSAS State County STAFFORD State County State Massued From ERCURTIS County State County STAFFORD State County State CANSAS One services State CANSAS State Field County State State Field County State CANSAS State State State County State County State State <td< td=""><td>N, LLO</td><td></td><td>STR,</td><td>ATAKAN EXPLORATI</td><td>ON, LLC</td><td>le for any</td><td></td></td<> | N, LLO | | STR, | ATAKAN EXPLORATI | ON, LLC | le for any | |
| gene and manual man | | Well | SEW | 'ARD SW #1-1 | | oonsib | |
| By County STAFFORD State KANSAS Outrigener and and angele angele and angele angelee ange | | Field | CUR | TIS | | or resp | |
| By Interpretations are opinions based on inferences from electrical or other measurements and Plonee guarantee the accuracy or correctness of any interpretation, and Ploneer Wireling Strate Down Avail Able Do | | County | STA | State | NSAS | liable | |
| By Interpretations are opinions based on inferences from electrical or other measurements and P guarantee the accuracy or correctness of any interpretation, and Pioneer Wireling Services, LLC will or expenses incurred or sustained by anyone resulting from any interpretation and e by SOUTH TO HWY 19, 3 WEST INTO All interpretations are opinions based on inferences from electrical or other measurements and P guarantee the accuracy or correctness of any interpretation, and Pioneer Wireling Services, LLC will or expenses incurred or sustained by anyone resulting from any interpretation and by WEST INTO Log Measured From: KELLY BUSHING 11 Fill THANK YOU FOR USING PIONEERE ENERGY 11 Fill THANK YOU FOR USING PIONEERE ENERGY 11 Fill | D SV | Location: | | API # : 15-185-23983-00-00 | Other Services | otbe | |
| 39 Image: Section of the sectin of the section of the section of the section of the section of | WARE IRTIS AFFO | | 1613 | ' FSL & 405' FEL | CNL/CDL | C will no | |
| By Image: State of the s | SE CU ST, | SE | <u> </u> | TWP 22S RGE 14W | DIL | s, LLC |), |
| 39 Normalization | Well Field County State | Permanent Datur Log Measured Fr Drilling Measurec | m | Elevation | | e Service terpretat | BLE C |
| 39 Number Interpretations are opinions based on inferences from electrical or o 30 South To Here South To Here 30 N/A DENOTES NOT AVA Guarantee the accuracy or correctness of any interpretation, and Pioneer W 30 South To HWY 19, 3 W 31 South To HWY 19, 3 W 32 South To HWY 19, 3 W 33 South To HWY 19, 3 W 34 South To HWY 19, 3 W 35 South To HWY 19, 3 W 36 South To HWY 19, 3 W 37 South To HWY 19, 3 W 38 South To HWY 19, 3 W 39 South To HWY 19, 3 W 30 South To HWY 19, 3 W | Date | | 3/31 | /2017 | | irelii any i | ILA A1 |
| By Number Important 3782 Bit Temp Important 10 10 10 Bit Temp Important 10 10 10 Bit Temp Important 10 10 10 10 Bit Temp Important 10 10 10 10 10 Bit Temp Important 10 10 10 10 10 10 Bit Temp Important 10 10 10 10 10 10 10 10 Bit Temp Important 10 | Run Number | | 0 | NE | | er W om a | /A RE |
| Or In Hole | Depth Uniller | | يې بر | 703' | | onee | G |
| By Number B S </td <td>Bottom Logged Interval</td> <td></td> <td>ы.</td> <td>792'</td> <td></td> <td>d Pi</td> <td></td> | Bottom Logged Interval | | ы. | 792' | | d Pi | |
| and the product of t | Top Log Interval | | 3 | 100' | | , an | |
| Market State Normalized State St | Casing Driller | | 8.625" | | | tion | |
| an hole n hole an ple so site an ple so s | Casing Logger | | 7 | 00. | | reta | |
| ample scosity -100 ample scosity -100 ample scosity -100 as. Temp 0.000 -100 as. Temp 0.070 -100 as. Temp 0.053 -000 as. Temp 0.053 -000 as. Temp 0.053 -000 ccolar -114 -000 as. Temp 0.053 -000 ccolar -144 -000 as. Temp -0.153 -000 ccolar -144 -000 as. Temp -0.153 -000 as. Temp -0.144 -000 as. Temp -0.153 -000 ccolar -144 -000 as. Temp | Type Fluid in Hole | | SH : | MICAL | | terpi | |
| Society and a second se | Salinity,ppm CL | | 6 | 000 | | y in | |
| By Image: Section of the sectin of the section of the section of the section of the section of | Density / Viscosity | | 9.2 | 63 | | fan | |
| ample rample is. Temp 0.70 0 62 is. Temp 0.95 0 62 0 as. Temp 0.95 0 62 0 as. Temp 0.38 114 0.96 0 as. Temp 0.38 114 0 0 as. Temp 0.38 114 0 0 as. Temp 114 0 0 114 as. Temp 114 0 0 0 as. Temp 0 0 0 0 as. Temp 0 0 0 0 as. Temp | pH / Fluid Loss | | 8.5 | 15 | | s of | |
| W Number 0.70 0.70 0.53 0.62 0.95 0.95 0.92 0.20 | Source of Sample | | FLO | WLINE | | nes | ١ |
| BY 0.53 0.0 | Rm @ Meas. Temp | | | | | ectr | |
| as. Temp as. Te | Rmf @ Meas. Temp | | | | | orre | |
| W Imp. F 0.38 0.14 Imp. F Number 114 14 14 Imp. F Imp. F 91 114 Imp. F Imp. F Imp. F 91 114 Imp. F Imp. F Imp. F 91 Imp. F Imp. F Imp. F Imp. F 91 Imp. F Imp. F Imp. F Imp. F 91 Imp. F Imp. F Imp. F Imp. F Imp. F Imp. F Imp. F Imp. F Imp. F Imp. F Imp. F Imp. F Imp. F Imp. F Imp. F Imp. F Imp. F Imp. F Imp. F Imp. F Imp. F Imp. F Imp. F Imp. F Imp. F Imp. F Imp. F Imp. F Imp. F Imp. F Imp. F Imp. F Imp. F Imp. F Imp. F Imp. F Imp. F Imp. F Imp. F Imp. F Imp. F Imp. F Imp. F Imp. F Imp. F Imp. F Imp. F Imp. F < | Rmc @ Meas. Temp | | 0.95 | @ 62 | | or c | |
| Number 0.38 0.114 emp. F 3 HOURS 114 91 114 91 0.38 91 14 91 91 14 91 91 14 91 0.38 91 0.38 91 14 91 0.38 91 0.38 0.34 91 0.39 0.34 91 0.34 0.34 91 0.35 0.34 0.34 0.34 0.34 0.34 0.35 0.34 0.34 0.35 0.34 0.34 0.34 0.34 0.34 0.35 0.34 0.34 0.34 0.34 0.34 0.35 0.34 0.34 0.34 0.34 0.34 0.34 0.34 0.34 0.34 0.34 0.34 0.34 0.34 0.34 0.34 0.34 0.34 0.34 0.34 0.34 | Source of Rmf / Rmc | | CH | ARTS | | s ar | |
| JUSTIN PRATER | Rm @ BHT | | 0.38 | @ 114 | | ions ura | |
| JUSTIN PRATER | Operating Rig Time | | 3 H | OURS | | etati accu | |
| Image: marked state 91 Image: marked state 01 Image: marked state 02 Image: marked state 03 Image: marked state 03 </td <td>Max Rec. Temp. F</td> <td></td> <td></td> <td>14</td> <td></td> <td>pre ne a</td> <td></td> | Max Rec. Temp. F | | | 14 | | pre ne a | |
| JUSTIN PRATER | Equipment Number | | | 91 | | nter | |
| JUSTIN PRATER | Location | | 8 | DLBY | | All ir | |
| JUSTIN PRATER | Recorded By | | D. SC | HMIDT | | A | |
| | Witnessed By | | JUSTIN | PRATER | | | |

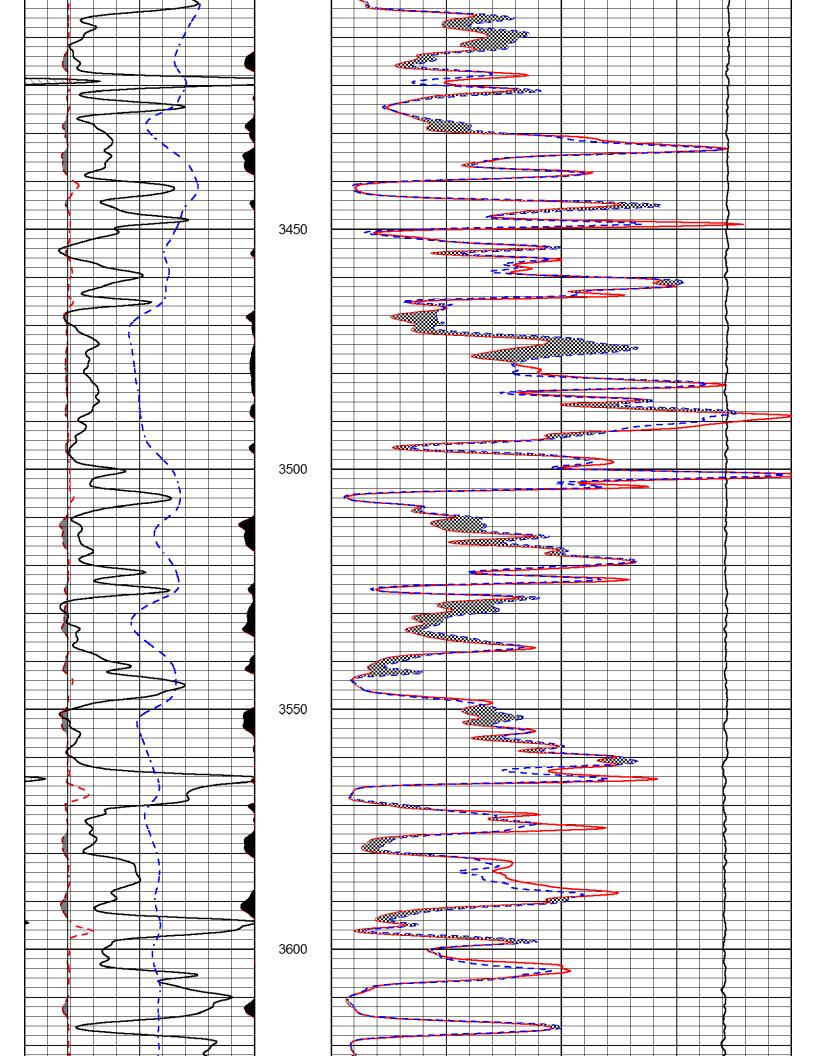
| l | ₋og Vari | ables ^{Data} | baseC:\Program set_field/well/S | hData\Warrior\D TKML/pass4.1/_ | ata\stratakan_se _vars_ | eward sw_1-1.dl | C | |
|---|-----------|-----------------------|------------------------------------|-----------------------------------|----------------------------|------------------|-------|------------------|
| | | | | Top - | Bottom | | | |
| | А | BOREID in | BOTTEMP degF | CASEOD in | CASETHCK in | FLUIDDEN g/cc | М | MATRXDEN g/cc |
| | 1 | 7.875 | 114 | 5.5 | 0 | 1 | 2 | 2.71 |
| | NPORSEL | PERFS | SNDERR mmho/m | SNDERRM mmho/m | SPSHIFT mV | SRFTEMP degF | SZCOR | TDEPTH ft |
| | Limestone | 0 | 0 | 0 | 145 | 0 | Off | 3793 |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

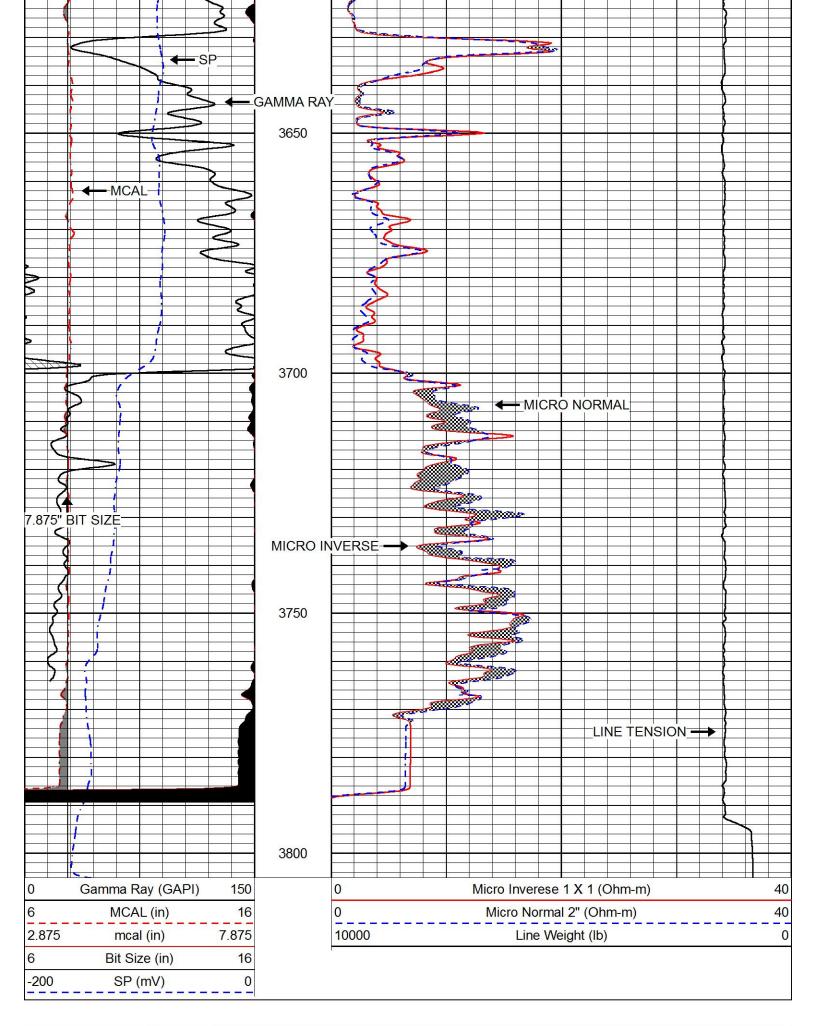
| Sensor | Offset (ft) | Schematic | Description | Length (ft) | O.D. (in) | Weight (lb |
|--------------------|-------------------------|-----------|---|-------------|-----------|------------|
| GR | 40.58 | | GR-M&W (89) | 3.00 | 3.50 | 50.00 |
| CNLSC CNSSC | 37.48 — 36.73 — | | CNT-M&W (207-MW) | 5.50 | 3.50 | 100.00 |
| LSD DCAL SSD | 28.43 28.42 27.93 | | CDL-M&W (90-1031) | 8.50 | 4.00 | 250.00 |
| MCAL MI MN | 19.83 19.83 19.83 | | ML-PSIML (PSI-01) GO Micro log tools converted to Simplec electronics | 7.58 | 4.00 | 65.00 |
| RLL3F RLL3 | 15.80 | | | | | |

| | | | ——DIL-M&W (PSI 13) | 18.50 | 3.50 | 220.00 |
|------|------|--------------------------------|--|-------|------|--------|
| CILD | 8.00 | - | | | | |
| | | | | | | |
| CILM | 4.70 | _ | | | | |
| | | | | | | |
| SP | 0.20 | _ | _ | | | |
| | 1 | Dataset: | stratakan_seward sw_1-1.db: field/well/STKML/pass4 | 4.1 | | |
| | | Total length: Total weight: | 43.08 ft 685.00 lb | | | |
| | | O.D.: | 4.00 in | | | |







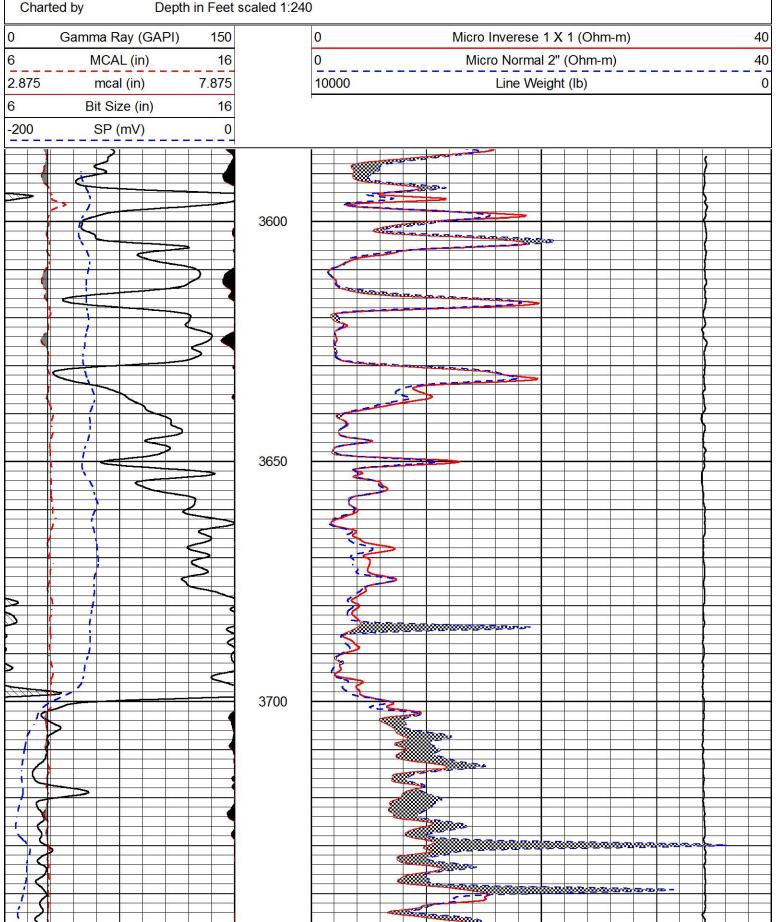


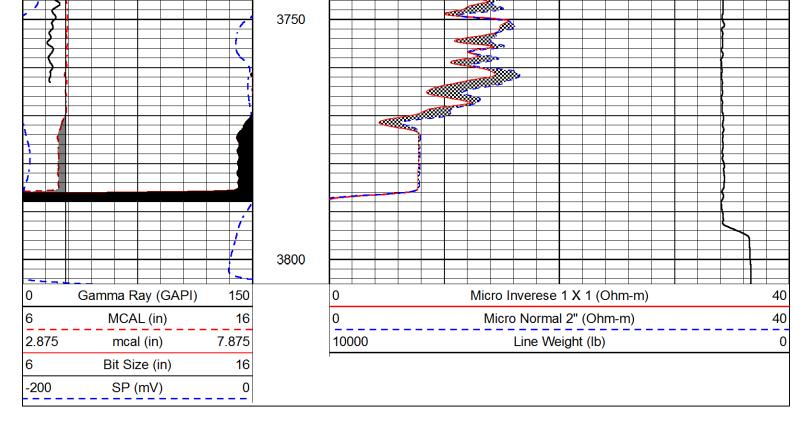




REPEAT SECTION

Database Filestratakan_seward sw_1-1.dbDataset PathnameSTKML/pass2.1Presentation FormatmicroDataset CreationFri Mar 31 20:14:20 2017Charted byDepth in Feet scaled 1:240





| Database File Dataset Pathname Dataset Creation | STKML/p | _seward sw_1-1.db | libration Report | | | | |
|---|----------------------------|---|----------------------------|--|----------------------|-------------------------------------|--------------------------------|
| | | | ction Calibration | Report | | | |
| | Serial-N Calibra | | PS | 6I 13-M&W Mar 31 18:5 | 54:31 2017 | | |
| | | Readings | F | References | | Res | ults |
| Loop: | Air | Loop | Air | Loop | | Gain | Offset |
| Deep Medium | 166.796 142.009 | 835.089 1348.560 | 0.000 0.000 | 255.800 255.800 | mmho/m mmho/m | 0.900 0.850 | -23.000 15.000 |
| | | Microlo | g Calibration Re | eport | | | |
| | Serial-N Perforn | | | 8I-01-PSIML Mar 31 18:4 | | | |
| | | Readings | F | References | | Res | ults |
| | Zero | Cal | Zero | Cal | | m | b |
| Normal Inverse Caliper | 0.0000 0.0000 1.0001 | 1.0000 1.0000 1.1397 | 0.0000 0.0000 6.5000 | 1.0000 1.0000 18.5000 | Ohm-m Ohm-m in | 32500.0000 30000.0000 70.0000 | -0.9500 -0.3000 -65.5350 |
| | | Compensated | Density Calibra | ation Report | | | |
| | | Model: / Verifier: Calibration Performed: | 16 | -1031-M&W 955B / 2ci i Mar 31 18:4 | | | |

| | Density | | | Far D | etector | Near Detector | |
|---|----------------|-------------------------------------|------------|----------------------------|------------------|--------------------|------------|
| Magnesium Aluminum | 1.755 2.665 | g/cc g/cc | | | 174.18 963.17 | 6425.27 4037.42 | cps cps |
| | Spine Angle : | = 74 .55 | | Dens | ity/Spine I | Ratio = 0.522 | |
| | Size | | | Rea | ading | | |
| Small Ring Large Ring | 6.00 16.00 | in in | | | 1.83 1.48 | | |
| | C | Compensa | ated Neut | ron Calibratio | n Report | | |
| | | Serial Nu Tool Moo Calibratio | | 207-N M&W ned: Fri M | / | 0:30 2017 | |
| Detecto | or | Readings | | Target | | Normalization | |
| Short S Long S | | 6240.00 460.00 | cps cps | 1000.00 1000.00 | cps cps | 1.6025 1.9500 | |
| | | Gam | ma Ray C | alibration Re | port | | |
| Serial Numbe Tool Model: Calibration Pe | | | 2W | 8:42:32 2017 | , | | |
| Calibrator Val | ue: | 1.(|) | GAP | | | |
| Background F Calibrator Rea | | 0.0 1.0 | | cps cps | | | |
| Sensitivity: | | | 6000 | GAP | | | |

| | Company Well Field | STRATAKAN EXPLORATION, LLC SEWARD SW #1-1 CURTIS |
|-------------------------|--------------------------|--|
| PIONEER | County | STAFFORD |
| Pioneer Energy Services | State | KANSAS |

Se-- 54 1-1

| | 15-185-2398 | | | | | _ | | | |
|---------------|-------------|----------------|-------------|----------------------|--------------|------------|--------------|-------------|---|
| | | xploration, LL | | | Name & No: | | | | |
| | | 405 FEL Sec | | | | | Stafford | | |
| Rig No.: | 14 | Contractor: | | | | | Noel Perez (| 620-271-495 | 7 |
| | 14 | . Size | 6.26 x 2.25 | | | Rig Phone: | | | |
| Make Pump: | | | | Lin | er & Stroke: | | 6x14 | Spud | |
| | | 3800 | | | | 1923 | KB Hol | - | 3/31/17 @ 2:15 PM |
| Mud Co.: | | | Mu | d Engineer: | | | | Water | Well |
| Date | 03/24/17 | 03/25/17 | 03/28/17 | 03/29/17 | 03/30/17 | 03/31/17 | 04/01/17 | 04/02/17 | |
| Days | 1-spud | 2-OFF | 3-Drlg | 4 Drlg | 5-TIHw/bit | 6-Drlg | 7-run 5 1/5 | | |
| Depth | · | 404 | 2100 | 3100 | 3467 | 3611 | 3800 | 3800 | |
| Ft. Cut | - | 404 | 1696 | 1050 | 317 | 144 | 189 | | |
| D.T. | | | | | | | | | |
| D.T. | | | 0.25 | | | | | _ | |
| C.T. | | 8 | 3 | 0.5 | 15.25 | 19.25 | 19.75 | 7.25 | |
| Bit Wt. | all | 12,000 | 30,000 | 38,000 | 38,000 | 38,000 | 40,000 | | |
| RPM | 100 | 100 | 85 | 85 | 80 | 80 | 80 | | |
| Pressure | 450 | 550 | 1000 | 1000 | 1000 | 1000 | 1100 | | |
| SPM | 60 | 60 | 60 | 60 | 60 | 60 | 60 | | |
| Mud Cost | | | | | 8,061 | 8,060 | 9292 | 9292 | |
| Mud Wt. | | 9.3 | 9.5 | 9.1 | 9 | 9.2 | 9.2 | | |
| Viscosity | | 34 | 32 | 55 | 53 | 60 | 49 | | |
| Water Loss | | | | | 8 | 8 | 15 | | |
| Chlorides | | | | | 2800 | 4000 | 9000 | | |
| L.C.M. | | 1# | | 2# | 1.5 # | 1# | 1# | | |
| Dev. Sur | | .75°-404 | | | | | 1.75°-3800 | | |
| Dev. Sur | | | | | | | | | |
| Fuel | | 5508 | 5022 | 4455 | 4050 | 3635 | 3200 | 3150 | |
| Water-Pit | | | FULL | FULL | Full | FULL | 6' | | |
| ACC Bit Hrs. | | 3.25 | 19.75 | 33 | 51.75 | 56.5 | 60.75 | | |
| Formation | sd-sh | sd-sh | sd-sh | sh-Im | sh-Im | sh-im | sh-Im | | |
| Weather | | Clear | Cloudy | Rain | Cloudy | | rain | | |
| No. | Size | Туре | Out | Ft. | Hrs. | Cum Hrs. | Bit Cond | Serial # | Tops |
| 1 | 12 1/4 | Sm-tooth | 404 | 404 | 3.25 | 3.25 | RR | 3653 | |
| 2 | 7 7/8 | Varel | 3800 | 3396 | 60.75 | 64 | | 1387950 | · · · · · · · · · · · · |
| 3 | | *0.01 | | 0000 | 00.70 | | | 1007000 | |
| 4 | | | | | | | | | |
| | | | 051 | | | | | | |
| DEPTH | SIZE | SACKS | | ENT MATE | | | DRILLED OUT | | |
| 404 | 8 5/8 | 450 | | on, 3% cc & | | 3:00 PM | 1 | Qua | lity Did Circulate |
| 3791.59 | 5 1/2" | 140 | 30- | Rat 20-Mo Q PRO C | use | 10:15 AM | 2:15 PM | | Quality |
| NO | | RVAL | OPEN | SHUT | OPEN | SHUT | | RECO | OVERY |
| | 3403'-3467 | | JOPEN 30 | | | | 120' MUD | | |
| 2 | 3504'-3611 | | 30 | | | | 248' Water | 124' MCM | 20' OCM |
| 3 | 0004-001 | l | | +5 | | | | | |
| 4 | | | | · · · · | | | | | |
| | | ·· | | | | | | | |
| 5 6 | | | | ļ | | | | | <u></u> |
| <u>6</u> 7 | | | | | | | | | |
| 8 | | | · | · | | 1 | | | · |
| 9 | | | | | | · | <u> </u> | | |
| 3 | | | | | | L | | | - · · · · · · · · · · · · · · · · · · · |

Surface Casing Furnished by: Smith Supply. Ran 9 joints of 8 5/8" used 32# tally 389.97' set @ 404'

Remarks: Strap & weld surface by WW Kieth. Anhydrite @ 786'-821'. Displaced @ 2599' (550 bbls). Short trip @ 3467' (31 stands) 2.25 hrs. Pipe strap .64 long. LTD 3793, logged by Pioneer (3.75hrs) Ran 115 jts of 5 1/2 tallied 3781.59 set @ 3791. Plug down @ 10:15 am, Released rig @ 2:15 PM.



DRILL STEM TEST REPORT

Prepared For: StrataKan Exploration

204 W Mill St Plainville, KS 67603

ATTN: Justin Prater

Seward SW #1-1

1-22s-14w Stafford,KS

2017.03.30 @ 00:15:40 Start Date: End Date: 2017.03.30 @ 07:02:10 Job Ticket #: 59930 DST #: 1

Trilobite Testing, Inc PO Box 362 Hays, KS 67601 ph: 785-625-4778 fax: 785-625-5620

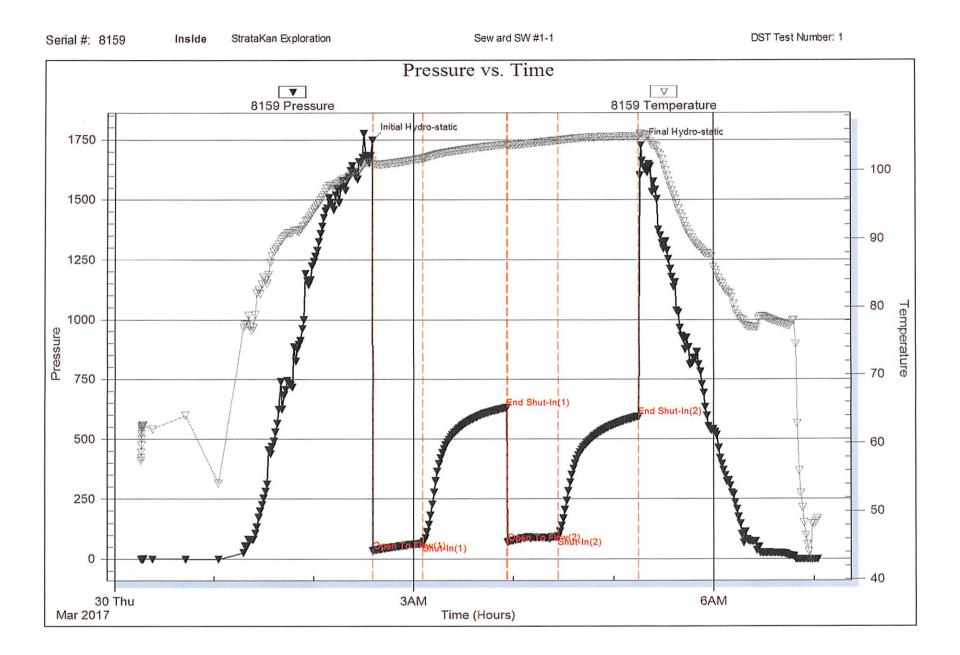
Printed: 2017.04.03 @ 08:18:30

| | DRILL STEM TES | | ORT | | | | <u>.</u> |
|---|---------------------------------------|------------------------|--------------------------|------------------|----------------------------------|---------------------------|----------------|
| RILOBITE | StrataKan Exploration | | 1-22 | s-14w | Stafford,K | S | |
| ESTING , INC | 204 W Mīll St Plainville, KS 67603 | | Sew | ard SV | N #1-1 | | |
| | | | | icket: 59 | | DST#:1 | |
| | ATTN: Justin Prater | | lest | Start: 20 |)17.03.30 @ | 00:15:40 | |
| GENERAL INFORMATION: Formation: LKC "B-F" | | | | | | | |
| Deviated: No Whipstock: Time Tool Opened: 02:35:25 Time Test Ended: 07:02:10 | ft (KB) | | Test Teste Unit N | er: l | Conventional Leal Cason 74 | Bottom Hol | e (Initial) |
| Interval: 3403.00 ft (KB) To 34 | | | Refe | rence Be | evations: | 1925.00 | |
| Total Depth:3467.00 ft (KB) (TVHole Diameter:7.88 inchesHole | D) Condition: Good | | | KB t | o GR/CF: | 1912.00 13.00 | |
| Serial #: 8159 Inside | | | | | | | |
| Press@RunDepth: 91.44 psig (| | | Capacity: | | | 8000.00 | psig |
| Start Date: 2017.03.30 Start Time: 00:15:41 | End Date: End Time: | 2017.03.30 07:02:10 | Last Calib. Time On B | - | 2 2017.03.30 | 2017.03.30 () 02:34:55 | |
| | | | Time Off E | Stm: 2 | 2017.03.30 @ | 05:16:10 | |
| TEST COMMENT: IF: Strong Blow, I ISI: No Blow Back FF: Weak 4" Blow FSI: No Blow Bac | ς , | | | | | | |
| Pressure vs. Th | | | PR | ESSUF | | ARY | |
| | EZD Forganizen | Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation | n | |
| | | 0 | 1746.76 | 101.37 | | | |
| | | 1 31 | 33.59 64.59 | 100.86 101.75 | | ow (1) | |
| | | 81 82 | 629.71 68.48 | 103.73 103.58 | End Shut-In Open To Fla | | |
| | | 112 | 91.44 | 104.35 | Shut-In(2) | | |
| | | 160 162 | 593.17 1725.97 | 104.98 105.34 | | | |
| | | | | | | | |
| Recovery | | | | Ga | s Rates | | <u> </u> |
| Length (ft) Description | Volume (bbi) | | | Choke (i | | e (psig) Ga | s Rate (Mct/d) |
| 120.00 SGCM 2%G 98%M | 0.61 | | | | | | |
| | | | | | | | |
| | | | | | | | |
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| Trilobite Testing, Inc | Ref. No: 59930 | | | Printed: | 2017.04.03 | @ 08:18:30 | |

| | DRILL STEM TES | | ORT | | | | |
|---|---|------------------------|---|-----------------|---------------------------------|--|------------|
| RILOBITE | StrataKan Exploration | | 1-22 | s-14w | Stafford, | ks | |
| ESTING , INC | 204 W Mili St Plainville, KS 67603 | | | vard S | W #1-1 9930 | DST#:1 | |
| | ATTN: Justin Prater | | | | 017.03.30 @ | | |
| GENERAL INFORMATION: | | <u> </u> | | | | | |
| Formation:LKC "B-F"Deviated:NoWhipstock:Time Tool Opened:02:35:25Time Test Ended:07:02:10 | ft (KB) | | Test Teste Unit N | er: | Conventiona Leal Cason 74 | al Bottom Hole (li | nitial) |
| Interval:3403.00 ft (KB) To344Total Depth:3467.00 ft (KB) (TVHole Diameter:7.88 inchesHole | | | Refer | | evations: to GR/CF: | 1925.00 ft (1912.00 ft (13.00 ft | |
| Serial #: 6806 Outside | ·*. | | | | | | |
| Press@RunDepth:psigStart Date:2017.03.30Start Time:00:15:41 | @ 3404.00 ft (KB) End Date: End Time: | 2017.03.30 07:02:25 | Capacity: Last Calib. Time On B Time Off B | tm: | | 8000.00 ps 1899.12.30 | ig |
| TEST COMMENT: IF: Strong Blow, I ISI: No Blow Back FF: Weak 4" Blow FSI: No Blow Bac | k | r | | | | | |
| Pressure vs. Th | | | | | | | |
| | | Time (Min.) | Pressure (psig) | Temp (deg F) | Annotati | on | |
| Recovery | | | | Ga | s Rates | | |
| Length (ft) Description 120.00 SGCM 2%G 98%M | Volume (bbl) 0.61 | | | Choke (| inches) Press | ure (psig) Gas Ra | te (Mcl/d) |
| Trilobite Testing, Inc | Ref. No: 59930 | | | Printed | : 2017.04.03 | 8 @ 08:18:30 | |

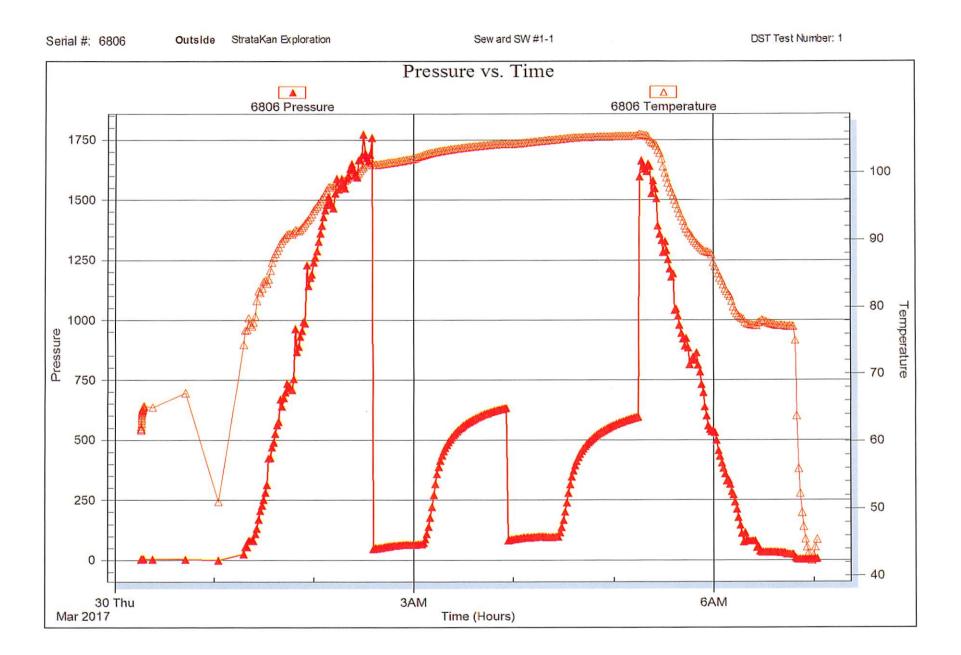
| RILOB | | DRI | LL STE | MTEST | REPO | RT | TOOL DIAGRAM |
|-------------------------------|------------|------------------|------------------------|-------------------|-----------------------|----------------------------|-------------------------|
| | | StrataK | an Exploratio | n | | 1-22s-14w Staffo | rd,KS |
| EST | ING , INC | 204 W I | EI 04 | | | | |
| | | | vill St e, KS 67603 | | • | Seward SW #1-1 | |
| | | | | | | Job Ticket: 59930 | DST#:1 |
| | | ATTN: | Justin Prater | | | Test Start: 2017.03.3 | 30 @ 00:15:40 |
| Tool Information | • | | | | | | |
| | 3270.00 ft | | | ches Volume: | 45.87 bb | I Tool Weight: | 2100.00 lb |
| Heavy Wt. Pipe: Length: | 0.00 ft | | | ches Volume: | 0.00 bb | | |
| Drill Collar: Length: | 118.00 ft | Diameter: | - | ches Volume: | 0.58 bb | - * | |
| Drill Pipe Above KB: | 4.00 ft | | | Total Volume: | 46.45 bb | | ft 52000.00 lb |
| Depth to Top Packer: | 3403.00 ft | | | | | String Weight: Init Fin | |
| Depth to Bottom Packer: | ft | | | | | • • | a 52000.00 lb |
| Interval between Packers: | 64.00 ft | | | | | | |
| Tool Length: | 83.00 ft | | | | | | |
| Number of Packers: | 2 | Diameter: | 6.75 ind | ches | | | |
| Tool Comments: | | | | | | | |
| | | | ~ • • • • | B 1/1 | | | |
| Tool Description Shut In Tool | Len | gth (ft) 5.00 | Serial No. | Position | Depth (ft) 3389.00 | Accum. Lengths | |
| Hydraulic tool | | 5.00 | | | 3394.00 | | |
| Packer | | 5.00 | | | 3399.00 | 19.00 | Bottom Of Top Packer |
| Packer | | 4.00 | | | 3403.00 | 19.00 | Bolloni Or Top Packer |
| Stubb | | 1.00 | | | 3403.00 | | |
| Recorder | | 0.00 | 8159 | la a i d a | 3404.00 3404.00 | | |
| Recorder | | 0.00 | 6806 | Inside Outside | 3404.00 3404.00 | | |
| Perforations | | | 0000 | Outside | 3404.00 3409.00 | | |
| | | 5.00 1.00 | | | 3409.00 3410.00 | | |
| Change Over Sub | | | | | | | |
| Drill Pipe | • | 32.00 2.00 | | | 3442.00 3444.00 | | |
| Change Over Sub | | | | | | | |
| Perforations | | 20.00 | | | 3464.00 | 04.00 | |
| Bullnose | | 3.00 | | | 3467.00 | 64.00 | Bottom Packers & Anchor |
| Total Tool | Length: | 83.00 | | | | | |
| | | | | | | | |
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| Trilobite Testing, Inc | | R | ef. No: 5993 | 0 | | Printed: 2017.0 | 4.03 @ 08:18:31 |

| (ON) | RILOBITE | DRI | LL ST | EM TEST F | EPORT | - | | FLUID S | UMMARY | |
|---------------------------|-----------------------------|-----------|------------|----------------------------------|-----------|----------------|-----------------|----------------|---------|--|
| | ESTING , INC 20 | | | ation | | 1-22s-14w | Stafford,KS | | | |
| | I ESTING, INC | | | | | Seward SW #1-1 | | | | |
| | | Plainvill | e, KS 676 | 03 | | Job Ticket: | 59930 | DST#: 1 | | |
| | | ATTN: | Justin Pra | ater | | Test Start: 2 | 2017.03.30 @ 0 | 0:15:40 | | |
| Mud and Cus | hion Information | | | | | · | | | | |
| | Chem | | | ushion Type: | | | Oil API: | | deg API | |
| Mud Weight: Viscosity: | 9.00 lb/gal 53.00 sec/qt | | | ushion Length: ushion Volume: | | ft bbl | Water Salinity: | | ppm | |
| Water Loss: | 7.99 in ³ | | | as Cushion Type: | | DDI | | | | |
| Resistivity: | ohmm | | | as Cushion Pressure | 1 | psig | | | | |
| Salinity: Filter Cake: | 2800.00 ppm 0.02 inches | | | | | | | | | |
| Recovery Info | ormation | | | <u> </u> | | | | | | |
| - | | | R | ecovery Table | | | _ | | | |
| | Lengt ft | h | | Description | | Volume bbl | | | | |
| | | 120.00 | SGCM 2% | 6G 98%M | | 0.60 | в | | | |
| | Total Length: | 120 | .00 ft | Total Volume: | 0.608 bbl | | | | | |
| | Num Fluid Samp | les: 0 | | Num Gas Bombs: | 0 | Serial # | ŧ | | | |
| | Laboratory Nam | | | Laboratory Location | 1: | | | | | |
| | Recovery Com | nents: | | | | | | | | |
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Ref. No: 59930

Printed: 2017.04.03 @ 08:18:31



Ref. No: 59930

Printed: 2017.04.03 @ 08:18:31



DRILL STEM TEST REPORT

Prepared For: StrataKan Exploration

204 W Mill St Plainville, KS 67603

ATTN: Justin Prater

Seward SW #1-1

1-22s-14w Stafford,KS

2017.03.30 @ 21:37:56 Start Date: End Date: 2017.03.31 @ 04:12:56 Job Ticket #: 59931 DST #: 2

Trilobite Testing, Inc PO Box 362 Hays, KS 67601 ph: 785-625-4778 fax: 785-625-5620

Printed: 2017.04.03 @ 08:17:46

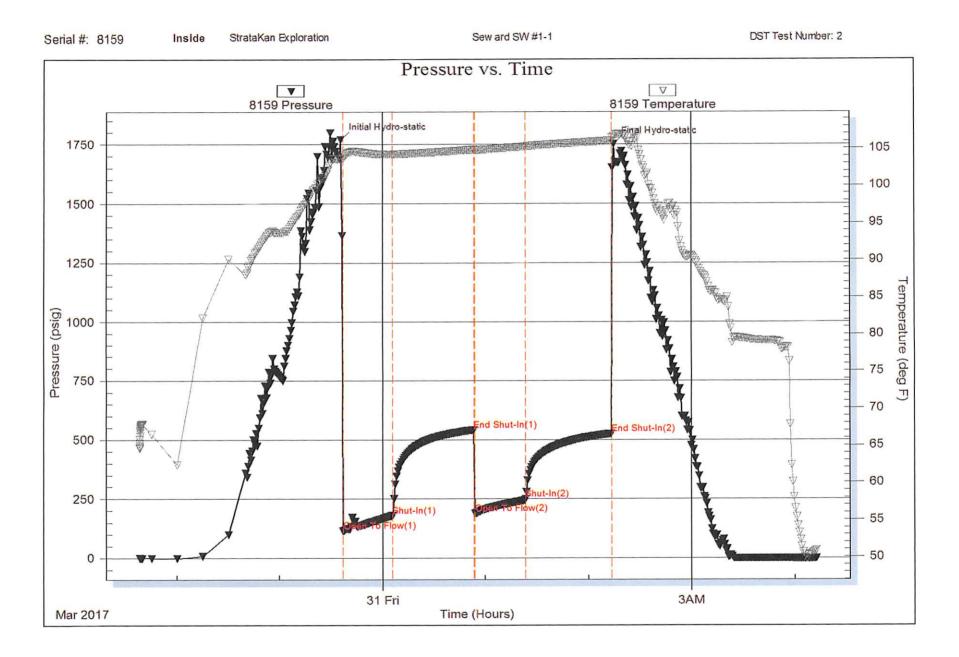
| ACR - | | DRILL STEM TE | ES | TREP | ORT | | | | |
|---------------------------------------|--|--------------------------------|----|-------------|-----------------------|-------------------|---------------------------------|-----------------------|----------------|
| | RILOBITE | StrataKan Exploration | | | 1-2 | 2s-14w | Stafford, | <u>(s</u> | |
| | ESTING , INC | 204 W Mill St | | | Se | ward S | W #1-1 | | |
| | | Plainville, KS 67603 | | | Job | Ticket: 59 | 9931 | DST#:2 | ! |
| | | ATTN: Justin Prater | | | Tes | t Start: 20 |)17.03.30 @ | 21:37:56 | |
| GENERAL | INFORMATION: | | | | | | | | |
| | Lower KC No Whipstock: ened: 23:36:56 led: 04:12:56 | ft (KB) | | | Tes | ter: | Conventiona Leal Cason 74 | l Bottom Hol | e (Reset) |
| Interval: | 3504.00 ft (KB) To 36 | | | | Ref | erence Be | evations: | 1925.00 | |
| Total Depth: Hole Diameter: | 3611.00 ft (KB) (T | /D) • Condition: Good | | | | KD | | 1912.00 | |
| | | | | | | KB | to GR/CF: | 13.00 | ft |
| Serial #: 8 | | | | | . . | | | | |
| Press@RunDe Start Date: | epth: 249.70 psig 2017.03.30 | @ 3505.00 ft (KB) End Date: | | 2017.03.31 | Capacity Last Cali | | | 8000.00 2017.03.31 | psig |
| Start Time: | 21:37:57 | End Time: | | 04:12:56 | Time On | | 2017.03.30 (| | |
| | | | | | Time Off | Btm: | 2017.03.31 (| @ 02:14:41 | |
| | FF: Strong Blow , FSI: Weak Surfac | | | | | | RE SUMM | | |
| _ F | SED Frances | | • | Time | Pressure | Temp | Annotatio | 'n | |
| 1783 | | | | (Min.) 0 | (psig) 1768.37 | (deg F) 103.61 | Initial Hydro | -static | |
| **** | | | | 2 | 115.12 | 103.66 | - | | |
| • • • • • • • • • • • • • • • • • • • | × | | 3 | 30 78 | 179.32 540.26 | 104.13 | | -/4) | |
| | | | | 78 | 540.26 188.76 | 104.79 104.71 | | | |
| | <u> </u> | | | 108 | 249.70 | 105.21 | Shut-In(2) | | |
| | | | 5 | 158 159 | 524.52 1750.40 | 105.98 106.53 | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| Length (ft) | Recovery | Volume (bbl) | | | | Ga Choke (| s Rates | | s Rate (Mct/d) |
| 248.00 | Description | 2.40 | | L | | Choke (| inches) Pressu | re (psig) Ga | s Rate (MCVU) |
| 124.00 | MCW 30%M 70%W | 1.74 | | | | | | | |
| 20.00 | SOCM 2%O 98%M | 0.28 | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| * Recovery from m | utiple tests esting, Inc | Ref. No: 59931 | | <u>L</u> | | Data to st | 2017.04.03 | @ 00.17.47 | |

| RILOBITE | DRILL STEM TE | ST REP | ORT | | | | |
|--|--|----------------|--------------------------|---------------------------|---------------------|--------------|-----------------|
| | StrataKan Exploration | | 1-2 | 2s-14w | Stafford, | ,KS | |
| ESTING , INC. | 204 W Mill St | | Se | ward S | W #1-1 | | |
| | Plainville, KS 67603 | | | Ticket: 5 | | DST#:: | 2 |
| | ATTN: Justin Prater | | Tes | t Start: 2 | 017.03.30 (| @ 21:37:56 | - |
| GENERAL INFORMATION: | | | | | | | |
| Formation: Lower KC | | | | | | | |
| Deviated: No Whipstock: | ft (KB) | | | | | al Bottom Ho | le (Reset) |
| Time Tool Opened: 23:36:56 Time Test Ended: 04:12:56 | | | Tes | ter: No: | Leal Cason 74 | 1 | |
| nterval: 3504.00 ft (KB) To 36 | 611.00 ft (KB) (TVD) | | | | evations: | 1925.00 | ft /K/B) |
| Total Depth: 3611.00 ft (KB) (T | | | i teri | | evau0115. | 1925.00 | |
| Hole Diameter: 7.88 inches Hole | e Condition: Good | | | KB | to GR/CF: | 13.00 | |
| Serial #: 6806 Outside | | , | | | | | |
| Press@RunDepth: psig | @ 3505.00 ft (KB) | | Capacity | : | | 8000.00 | psig |
| Start Date: 2017.03.30 | End Date: | 2017.03.31 | Last Cali | | | 2017.03.31 | |
| Start Time: 21:37:57 | End Time: | 04:12:56 | Time On I Time Off | | | | |
| · | ce Blow Back | | | | | | |
| · | | | | | | | |
| Pressare vs. 7 | | Time | | | RE SUMN | | |
| Pressare vs. 1 | Time | Time (Min.) | Pf Pressure (psig) | RESSUI Temp (deg F) | Annotat | | |
| Pressare vs. 1 | | | Pressure | Temp | Annotat | | |
| Pressure va. 1 | | | Pressure | Temp | Annotat | | |
| Pressure vs. T | | (Min.) | Pressure | Temp | Annotat | | |
| Pressure vs. T | | (Min.) | Pressure | Temp | Annotat | | |
| Pressure va. 1 | | (Min.) | Pressure | Temp | Annotat | | |
| Pressure va. 1 | | (Min.) | Pressure | Temp | Annotat | | |
| Pressure va. 1 | | (Min.) | Pressure | Temp | Annotat | | |
| Pressure va. 1 | | (Min.) | Pressure | Temp | Annotat | | |
| Pressure va. 1 | | (Min.) | Pressure | Temp | Annotat | | |
| | | (Min.) | Pressure | Temp | Annotat | | |
| Pressere va. 1 | | (Min.) | Pressure | Temp (deg F) | Annotat | | |
| Pressure va. 1 COD Pressure va. 1 COD Pressure COD Pres | Finace Contraction Contractio | (Min.) | Pressure | Temp (deg F) | Annotat as Rates | ion | as Rate (Mcl/d) |
| Pressure vs. 1 Contribution | Volume (bbl) 2.40 | (Min.) | Pressure | Temp (deg F) | Annotat as Rates | ion | as Rate (Mct/d) |
| Pressure va. 1 CONTRACTOR CO | Volume (bbl) 2.40 1.74 | (Min.) | Pressure | Temp (deg F) | Annotat as Rates | ion | as Rate (Mcl/d) |
| Pressure vs. 1 Pressure vs. 1 | Volume (bbl) 2.40 | (Min.) | Pressure | Temp (deg F) | Annotat as Rates | ion | as Rate (Mcl/d) |
| Pressure va. 1 CONTRACTOR CO | Volume (bbl) 2.40 1.74 | (Min.) | Pressure | Temp (deg F) | Annotat as Rates | ion | as Rate (Mct/d) |
| Pressure vs. 1 Contrained Co | Volume (bbl) 2.40 1.74 | (Min.) | Pressure | Temp (deg F) | Annotat as Rates | ion | as Rate (Mct/d) |

| | BITE | StrataKa | n Explora | ion | | 1-22s-14w Stafford, | KS |
|---|--------------|--|----------------------|----------------|--|-------------------------------------|----------------------|
| | TING , INC | 204111 | 1911 St , KS 6760 | 3 | | Seward SW #1-1 Job Ticket: 59931 | DST#:2 |
| | | ATTN: | Justin Pra | er | | Test Start: 2017.03.30 @ | 21:37:56 |
| Tool Information | | ! | | | | | |
| Orill Pipe: Length | : 3364.00 ft | Diameter: | 3.80 | inches Volume: | 47.19 bbl | Tool Weight: | 2100.00 lb |
| leavy Wt. Pipe: Length | : 0.00 ft | Diameter: | 0.00 | inches Volume: | 0.00 bbl | Weight set on Packer | 25000.00 lb |
| Drill Collar: Length | : 118.00 ft | Diameter: | 2.25 | inches Volume: | | Weight to Pull Loose: | 60000.00 lb |
| rill Pipe Above KB: | 4.00 ft | | | Total Volume: | 47.77 bbl | | ft |
| Depth to Top Packer: | 3504.00 ft | | | | | String Weight: Initial | 52000.00 lb |
| Depth to Bottom Packer: | ft | | | | | Final | 54000.00 lb |
| nterval between Packers | | | | | | | |
| Fool Length: | 133.00 ft | | | | | | |
| Number of Packers: | 2 | Diameter: | 6.75 | inches | | | |
| Fool Comments: | | | | | | | |
| | | | | | | | |
| Shut In Tool | | 5.00 | | | 3483.00 | | |
| Shut In Tool Hydraulic tool | | 5.00 | | | 3483.00 3488.00 | | |
| Hydraulic tool Jars | | 5.00 5.00 | | | 3488.00 3493.00 | | |
| Hydraulic tool Jars Safety Joint | | 5.00 5.00 2.00 | | | 3488.00 3493.00 3495.00 | | |
| Hydraulic tool Iars Safety Joint Packer | | 5.00 5.00 2.00 5.00 | | | 3488.00 3493.00 3495.00 3500.00 | 26.00 | Bottom Of Top Packer |
| Hydraulic tool Jars Safety Joint Packer Packer | | 5.00 5.00 2.00 5.00 4.00 | | | 3488.00 3493.00 3495.00 3500.00 3504.00 | 26.00 | Bottom Of Top Packer |
| Hydraulic tool Iars Safety Joint Packer Packer Stubb | | 5.00 5.00 2.00 5.00 4.00 1.00 | 9450 | | 3488.00 3493.00 3495.00 3500.00 3504.00 3505.00 | 26.00 | Bottom Of Top Packe |
| Hydraulic tool Iars Safety Joint Packer Packer Stubb Recorder | | 5.00 5.00 2.00 5.00 4.00 1.00 0.00 | 8159 | | 3488.00 3493.00 3495.00 3500.00 3504.00 3505.00 3505.00 | 26.00 | Bottom Of Top Packer |
| Hydraulic tool Jars Safety Joint Packer Packer Stubb Recorder Recorder | | 5.00 5.00 2.00 5.00 4.00 1.00 0.00 0.00 | 8159 6806 | | 3488.00 3493.00 3495.00 3500.00 3504.00 3505.00 3505.00 3505.00 | 26.00 | Bottom Of Top Packe |
| Hydraulic tool Jars Safety Joint Packer Packer Stubb Recorder Recorder Perforations | | 5.00 5.00 2.00 5.00 4.00 1.00 0.00 0.00 7.00 | | | 3488.00 3493.00 3495.00 3500.00 3504.00 3505.00 3505.00 3505.00 3512.00 | 26.00 | Bottom Of Top Packe |
| Hydraulic tool Jars Safety Joint Packer Packer Stubb Recorder Recorder Recorder Perforations Change Over Sub | | 5.00 5.00 2.00 5.00 4.00 1.00 0.00 0.00 7.00 1.00 | | | 3488.00 3493.00 3495.00 3500.00 3504.00 3505.00 3505.00 3505.00 3512.00 3512.00 | 26.00 | Bottom Of Top Packe |
| Hydraulic tool Jars Safety Joint Packer Packer Stubb Recorder Recorder Perforations Change Over Sub Drill Pipe | | 5.00 5.00 2.00 5.00 4.00 1.00 0.00 7.00 1.00 64.00 | | | 3488.00 3493.00 3495.00 3500.00 3505.00 3505.00 3505.00 3512.00 3513.00 3577.00 | 26.00 | Bottom Of Top Packer |
| Hydraulic tool Jars Safety Joint Packer Packer Stubb Recorder Recorder Perforations Change Over Sub Drill Pipe Change Over Sub | | 5.00 5.00 2.00 5.00 4.00 1.00 0.00 7.00 1.00 64.00 2.00 | | | 3488.00 3493.00 3495.00 3500.00 3505.00 3505.00 3505.00 3512.00 3513.00 3577.00 3579.00 | 26.00 | Bottom Of Top Packer |
| Hydraulic tool Jars Safety Joint Packer Packer Stubb Recorder Recorder Perforations Change Over Sub Drill Pipe Change Over Sub Perforations | | 5.00 5.00 2.00 5.00 1.00 0.00 7.00 1.00 64.00 2.00 29.00 | | | 3488.00 3493.00 3495.00 3500.00 3505.00 3505.00 3505.00 3512.00 3513.00 3577.00 3579.00 3608.00 | | |
| Hydraulic tool Jars Safety Joint Packer Packer Stubb Recorder Recorder Perforations Change Over Sub Drill Pipe Change Over Sub Perforations Bulinose | ool Length: | 5.00 5.00 2.00 5.00 4.00 1.00 0.00 7.00 1.00 64.00 2.00 29.00 3.00 | | | 3488.00 3493.00 3495.00 3500.00 3505.00 3505.00 3505.00 3512.00 3513.00 3577.00 3579.00 | | |
| Hydraulic tool Jars Safety Joint Packer Packer Stubb Recorder Recorder Perforations Change Over Sub Drill Pipe Change Over Sub Perforations Bulinose | ool Length: | 5.00 5.00 2.00 5.00 1.00 0.00 7.00 1.00 64.00 2.00 29.00 | | | 3488.00 3493.00 3495.00 3500.00 3505.00 3505.00 3505.00 3512.00 3513.00 3577.00 3579.00 3608.00 | | |
| Hydraulic tool Jars Safety Joint Packer Packer Stubb Recorder Recorder Perforations Change Over Sub Drill Pipe Change Over Sub Perforations Bulinose | ol Length: | 5.00 5.00 2.00 5.00 4.00 1.00 0.00 7.00 1.00 64.00 2.00 29.00 3.00 | | | 3488.00 3493.00 3495.00 3500.00 3505.00 3505.00 3505.00 3512.00 3513.00 3577.00 3579.00 3608.00 | | Bottom Of Top Packer |
| tydraulic tool lars Safety Joint Packer Packer Stubb Recorder Recorder Perforations Change Over Sub Drill Pipe Change Over Sub Perforations Bullnose | ol Length: | 5.00 5.00 2.00 5.00 4.00 1.00 0.00 7.00 1.00 64.00 2.00 29.00 3.00 | | | 3488.00 3493.00 3495.00 3500.00 3505.00 3505.00 3505.00 3512.00 3513.00 3577.00 3579.00 3608.00 | | |

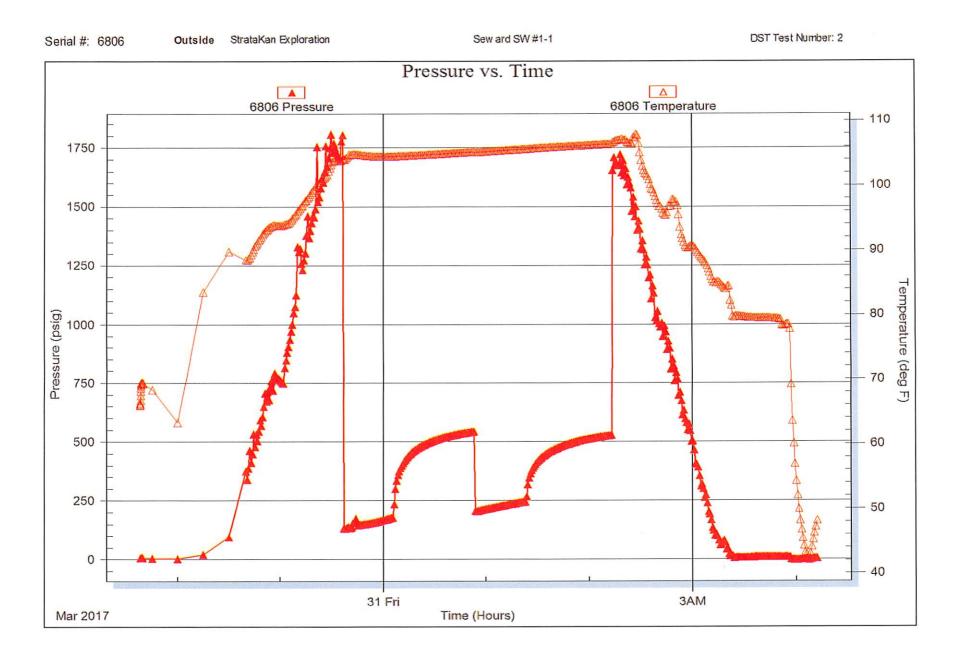
| RILOB | | RILL STEM TEST REF | PORT | F | UID SUMMARY | | | |
|---|--------------|--|----------------|--------------------------|-------------|--|--|--|
| | Ou a | taKan Exploration | 1-22s-14w | Stafford,KS | | | | |
| EST I | ING, INC 204 | W Mill St | Seward S | Seward SW #1-1 | | | | |
| | Plain | wille, KS 67603 | _ | Job Ticket: 59931 DST#:2 | | | | |
| | ATT | N: Justin Prater | Test Start: 20 |)17.03.30 @ 21:: | 37:56 | | | |
| Mud and Cushion Info | ormation | | | | | | | |
| Mud Type: Gel Chem | | Cushion Type: | | Oil API: | deg API | | | |
| Mud Weight: 9.00 lt | - | Cushion Length: | | Water Salinity: | 78000 ppm | | | |
| Viscosity: 53.00 s Water Loss: 7.98 ir | • | Cushion Volume: | bbl | | | | | |
| | a ahmm | Gas Cushion Type: Gas Cushion Pressure: | psig | | | | | |
| Salinity: 2800.00 p Filter Cake: 0.02 ir | opm | | polg | | | | | |
| Recovery Information | | | | | | | | |
| | ····· | Recovery Table | | 1 | | | | |
| | Length ft | Description | Volume bbl | | | | | |
| | 248.00 | Water | 2.404 | | | | | |
| | 124.00 | | 1.739 | | | | | |
| | 20.00 | SOCM 2%O 98%M | 0.281 | | | | | |
| | · | RW w as .15 @ 46 degrees | | | | | | |
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Ref. No: 59931

Printed: 2017.04.03 @ 08:17:47



Ref. No: 59931

Printed: 2017.04.03 @ 08:17:48

| 4/10 RILOBITE ESTING IN 1515 Commerce Parkw | ₽ C. vay ▪ Hays, Kansas 67601 | NO. 59930 |
|--|--|--|
| Well Name & No. <u>Seward</u> Sw Company <u>Strata Kan</u> Exp Address <u>204</u> w Mill St P. Co. Rep / Geo. <u>CTUSTin</u> Prater Location: Sec. <u>Market Sec.</u> <u>Twp.</u> <u>225</u> Interval Tested <u>3403</u> - <u>3467</u> Anchor Length <u>64</u> | Ioration Elevation lainville, KS 6760- Rig_w Rig_w Zone Tested Lansing | <u>1925</u> кв <u>1912</u> GL W 14 <u>Hord</u> State <u>KS</u> "B-F" |
| Top Packer Depth3397Bottom Packer Depth3403Total Depth3467Blow DescriptionI F: Strong BlowISI & NO BlowBack | Drill Collars Run Wt. Pipe Run Chlorides2800 BOB in 21 minutes | 118 Vis 53 O WL 8.0 ppm System LCM 1.5 |
| FF:W Pa K4inchBlow $FST:$ $MOBIOWBack$ Rec $i20$ Feet of \underline{GCM} RecFeet of \underline{GCM} Rec Total 120 BHT 105 (A) Initial Hydrostatic 1745 (B)First Initial Flow 65 (D)Initial Shut-In 630 (E)Second Initial Flow 68 (F)Second Final Flow 91 (G)Final Shut-In 593 (H)Final Hydrostatic 1726 | 2 %gas %gas %gas %gas %gas %gas %gas | T-Started <u>06:15</u> T-Open <u>02:35</u> T-Pulled <u>65:14</u> T-Out <u>07:02</u> Comments |
| Initial Open 300 Initial Shut-In 45 Final Flow 300 Final Shut-In 45 | Shale Packer | |

Approved By ______ Our Representative ______ Court Represe

| 4/10 | RILOBITE ESTING INC. 1515 Commerce Parkwar | | | Test NO. | Ticket 59931 | |
|--|---|--|--|--|---|--|
| Company <u>Strat</u> Address <u>204</u> Co. Rep/Geo. <u>T</u> | "Eward SW a Kan Explora W. Mill St Pl NStin Proter I Twp. 225 | tion lainville, KS | Elevation 67603 RigWW | 925 14 | | GL |
| Anchor Length Top Packer Depth Bottom Packer Depth Total Depth Blow Description I ISI: No B | 3499 3504 3611 Fistrong Blow, low Back | | 336 [] <u>4000 pp</u> r | 9 M 18 V 0 W | lud Wt. <u>9.2</u> is <u>64</u> /L <u>8</u> CM <u>1</u> | |
| <u>F51: Weak</u> Rec <u>20</u> Rec <u>124</u> | Blow, BOB in Sufface Blow 1 Feet of SCCM Feet of MCW Feet of <u>water</u> Feet of <u>Feet of</u> | 3ack | %gas %gas %gas %gas %gas %gas | 2 %oil %oil %oil %oil %oil | %water 70%water %water %water %water | 98%mud 30%mud %mud %mud %mud |
| Rec Total (A) Initial Hydrostatic (B) First Initial Flow (C) First Final Flow (D) Initial Shut-In (E) Second Initial Flow (F) Second Final Flow (G) Final Shut-In | 115 179 540 189 250 | Test 1050 Jars 250 Safety Joint 75 Circ Sub Hourly Standby Mileage 704 | 52.50 | T-On Loc T-Started T-Open T-Pulled T-Out Commen | 23:36 | > |
| (G) Final Shut-In (H) Final Hydrostatic Initial Open Initial Shut-In Final Flow Final Shut-In | 1750 30 45 30 41 | Sampler Straddle Shale Packer Extra Packer Extra Recorder Day Standby Accessibility Sub Total | | - 🗆 Ruine - 🗆 Ruine - 💷 Extra - Sub Tota - Total | ed Shale Packer ed Packer Copies I0 1427.50 T Disc't | |

STRATAKAN EXPLORATION, LLC

Seward SW #1-1 1613' FSL & 405' FEL Sec 1-22S-14W Stafford Co., Kansas

1912' GL 1923' KB

Report: Complete in Arb

- 04-13-17 Matt's Cat leveled location after MO WW Rig #14. MIRU DS&W Well Svc DD & Honas Tank Svc swab tank. SDFN
- 04-14-17 RIH w/ sandpump & CO to BPTD @ 3751'. RU Pioneer Energy Svc, ran CBL w/ good cement bond throughout. PBTD 3751' & TOC @ 2640'. Swab fluid down to 2700', perf Arb 3720-22'(2') w/ 4" Expendable gun 4 spf. When coming out w/ gun had 50' fluid entry. Let set 30 min, 1st pull FL @ 1800', 900'(21.42 bbl) fluid entry w/ good show oil. Let set 1 hr, FL @ 1250', 550'(13.09 bbl) fluid entry. Swab test as follows:

Time cum % bbl comments FL 1250', 2-250' pulls, fresh water 1st hr 15.08 15.08 9-3 2nd hr 15.08 30.16 3-1 FL 1250', 2-250' pulls, salty water 2nd pull 3rd hr 14.50 44.66 1 FL 1250', 2-250' pulls, salty water, muddy oil 4th hr 63.20 107.86 1 FL 2750', swb stdy, muddy oil 5th hr 64.90 172.76 1 FL 2900', swb stdy, muddy oil SDFN & Weekend DS&W \$ 3000.00 (4/13,14/17) Wildcat Pump \$12195.00 Honas \$ 850.00 Scheck \$ 1000.00 \$ 2355.00 Pioneer Bob's Hauling \$ 170.00 \$ 600.00 Popp \$20170.00 Cum \$20170.00 Total

04-17-17 FL @ 850', 2870' FIH w/ 100' clean gassy oil(3%). RU Pioneer Energy Svc, set CIBP @ 3718'. Swab fluid down to 2700', perf Arb 3701-03' w/ 4" Expendable gun 4 spf w/ no fluid entry. Swab test as follows:

1st hr23.1023.1022FL 3650', 4 pulls2nd hr2.9026.0095FL 3600', 2 pulls, No Visible Water3rd hr1.1627.1695FL 3610', 2 pulls, NVW4th hr1.7028.7695FL 3610', 2 pulls, NVW5th hr2.0030.7695FL 3610', 2 pulls, NVW

Seward SW #1-1

6th hr 1.70 32.46 95 FL 3610', 2 pulls, NVW 7th hr 2.00 34.46 95 FL 3610', 2 pulls, NVW SDFN DS&W \$ 2400.00 Bob's Hauling \$ 350.00 Pioneer \$ 2200.00 Popp \$ 600.00 Total \$ 5550.00 Cum \$25720.00

04-18-17 FL @ 2800', 850' FIH w/ 700' oil(82%). TIH w/ tbg as follows:

| 2-7/8" 8rd EUE TP MA | 1jt | 14.90' | Set @ 3724.32' |
|-------------------------|--------|----------|-------------------|
| 2-7/8" 8rd SN | 1jt | 1.10' | 3709.42' |
| 2-7/8" 8rd EUE tbg | 116jts | 3695.32' | 3708.32' |
| 2-7/8" 8rd EUE tbg subs | 1jts | 4.00' | 13.00' |
| Below KB | | 9.00' | |

Landed tbg 5' off bottom. Dump 5 gal corrosion inhibitor via tbg to run pump & rods through. TIH w/ pump & rods as follows:

2 ¹/₂"x 1 ¹/₂"x 14' RWB w/ 6' GA ³/₄"x 2' pony rod w/ pump guide 7 - 1 ¹/₂"x 25' sinker bars 70 - ³/₄"x 25' sucker rods 69 - 7/8"x 25' sucker rods 7/8"x 4' pony rods 1 ¹/₄"x 22' PR w/ 10' PRL

Longstroke well w/ good pump action, space out pump & clamp off. RDMO DD

| DS&W | \$ 2000.00 | | |
|---------|------------|-----|------------|
| Wildcat | \$20944.00 | | |
| Popp | \$ 600.00 | | |
| Total | \$23544.00 | Cum | \$49264.00 |

STRATAKAN EXPLORATION, LLC Seward SW #1-1 1613' FSL & 405' FEL Sec 1-22S-14W Stafford Co., Kansas

1912' GL 1923' KB

Completion Report - Run production csg

04-01-17
7:00 am – Wait on completion rig, Cut 3800' of 7-7/8" hole. RU Pioneer Energy Svc, ran Dual Compensated Porosity, Dual Induction, Sonic & Microresisitivity Logs, LTD – 3793'. TIH w/ bit, CTCH, LDDP & ND. Ran 114 jts of Used Smith Supply 5 ½" 8rd 15.5# J-55 R-2&3 LTC csg. Tallied 3781.59', set @ 4791', 2' off bottom. Shoe jt 32.65' w/ latch down @ 3758'. Ran turobilizer/centrilizers @ 3758', 3720', 3688', 3655', 3639', 3606' & 3575'. RU Quality Oilwell Cementing & cemented w/ 12 bbl mud flush, 20 bbl 2% KCL followed w/ 140 sx Q PRO C cement. Had good circulation throughout. Landed plug @ 10:15 am 4/01/17 w/ 1500# - latch down held. Plug rat hole w/ 30 sx cement & mouse hole w/ 20 sx cement. Set slips & release rig @ 12:15 pm 4/01/17. Equipment left on location, 4 jt csg = 116.55' threads off.

QUALITY OILWELL CEMENTING, INC. Federal Tax I.D.# 20-2886107

No. 1690

| Phone 785-483-2025 Cell 785-324-1041 | Home Office I | P.O. Box 32 | Russell, KS 67665 | No. | 1690 |
|---|-----------------------------|---|--|--|---------------------------------------|
| Date 4-1-17 Sec. | Twp. Range | County Stafford | State K 5 | On Location | Finish 10:13AM |
| | | Location 281 | + K-19 Hwy-? | W. Van, W | Into |
| Lease Seward Sh |) Well No. 1- | Owner | | | |
| Contractor WW14 | | You are I | y Oilwell Cementing, Inc hereby requested to rent r and helper to assist ow | cementing equipment | and furnish work as listed. |
| Type Job Long String Hole Size 71/8 | רבטע ד.ב. 3 | Charge | Stratakan d | Exolocation | |
| Hole Size 118" Csg. 56" New | T.D. 5800' Depth 3791.50 | To | STUTANT | Explot ation | • |
| Tbg. Size | Depth | 1 Street City | | State | |
| | Depth | | e was done to satisfaction a | | agent or contractor. |
| Cement Left in Csg. 32,65 | Shoe Joint 32.63 | | Amount Ordered 190 | | 5'iGilonite |
| Meas Line | Displace 891/2 | the second se | pil mud Clear 4" | | KCL |
| EQUIP | | Commor | | | <u>.</u> |
| Pumptrk 6 No. Cementer 6 Helper 13 | rett | Poz. Mix | - pro- | · | |
| Bulktrk 3 No. Driver Daw | 0 | Gel. | | | |
| Bulktik 2.U. No. Driver | | Caletum | RCL II | gol | |
| JOB SERVICES | & REMARKS | Hulls | | / | |
| Remarks: | | Salt / | 7 | | |
| Rat Hole | | Flowsea | ļ | | |
| Mouse Hole | | Kol-Seal | SOOT | · | |
| Centralizers /- 7 | | Mud CLI | R 48 | | |
| Baskets pipe on bottom | break Circulation | CFL-117 | or CD110 CAF 38 | | |
| | gal mul Clear 4 | • | | | |
| | | 30 Sx Handling | <u>115 - 100 -</u> | | • |
| plug monskale al 20 * mix the Sx Cam | The Hock to Ca | | | IENT | |
| wash sums & lines | Diplaced plus | Guide S | hoe | | · · · · · · · · · · · · · · · · · · · |
| wa 89 1/2 Bis Releas | | 0 Centraliz | zer 7 | | |
| | | Baskets | | | |
| Lift pressure | 700 # | AFU Ins Float Sh | | <u>761</u> | · · · · · · · · · · · · · · · · · · · |
| Land plug to | 1500 # | Latch Do | | | |
| V | | | | 110 martin | |
| | | Pumptrk | Charge Drod St | Fing | · · · · · · · · · · · · · · · · · · · |
| • | | Mileage | 19 // | Sent Providence and the second | |
| ^ | | | - | Tax | |
| D la Por | p/ | | | Discount | |
| X Signature | / | \$F | | Total Charge | |

GENERAL TERMS AND CONDITIONS

DEFINITIONS: In these terms and conditions, "Quality" shall mean Quality Oilwell Cementing, Inc., and "Customer" shall refer to the party identified by that term on the front of this contract. As applicable, "Job" relates to the services described on the front side of this contract, "merchandise" refers to the material described on the front of this contract and to any other materials, products, or supplies used, sold, or furnished under the requirements of this contract.

- TERMS: Unless satisfactory credit has been established, "CUSTOMER" must tender full cash payment to "QUALITY" before the job is undertaken or merchandise is delivered. If satisfactory credit has been established, the terms of payment for the job and/or merchandise, including bulk cement, are net cash, payable in 30 days from the completion of the job and/or delivery of the merchandise. For all past due invoices, "CUSTOMER" agrees to pay interest on amounts invoiced at a rate of 18 percent per annum until paid. Notwith-standing the foregoing in no event shall this Contract provide for interest exceeding the maximum rate of interest that "CUSTOMER" may agree to pay under applicable law. If any such interest should be provided for, it shall be and hereby is deemed to be a mistake, and this contract shall be automatically reformed to lower the rate of interest to the maximum legal contract rate, any amounts previously paid as excess interest shall be deducted from the amounts owing from the "CUSTOMER" or at the option of "QUALITY," refunded directly to "CUSTOMER." For purposes of this paragraph, QUALITY and CUSTOMER agree that KANSAS law shall apply. Any discounts granted with this contract are null and void if the charges are not paid when due.

- ATTORNEY FEES: In any legal action or proceeding between the parties to enforce any of the terms of this Service Contract, or in any way pertaining to the term of this Contract, the prevailing party shall be entitled to recover all expenses, including, but not limit to, a reasonable sum as and attorney's fees.

- PRICES AND TAXES: All merchandise listed in "QUALITY'S" current price shall schedule are F.O.B. QUALITY'S local station and are subject to change without notice. All prices are exclusive of any federal, state, local, or special taxes for the sale or use of the merchandise or services listed. The amount of taxes required to be paid by QUALITY shall be added to the quoted prices charged to CUS-TOMER.

- TOWING CHARGES: QUALITY will make a reasonable attempt to get to and from each job site using its own equipment. Should QUALITY be unable to do so because of poor or inadequate road conditions, and should it become necessary to employ a tractor or other pulling equipment to get to or from the job site, the tractor or pulling equipment will be supplied by CUSTOMER or, if furnished by QUAL-ITY, will be charged to and paid by CUSTOMER.

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current price book will be charged each way for each service unit which is ordered by CUSTOMER but not used. - SERVICE CONDITIONS AND LIABILITIES: 1. QUALITY carries public liability and property damage insurance, but since there are

so many uncertain and unknown conditions beyond QUALITY'S control, QUALITY shall not be liable for injuries to property or persons or for loss or damage arising from the performance of the job or delivery of the merchandise. Customer shall be responsible for and indemnify, defend, and hold harmless QUALITY, its officers, agents and employees, from and against any and all claims or suits for:

(A) Damage to property or for bodily injury, sickness, disease, or death, brought by any person, including CUSTOMER and/or the well owner; and:

(B) Oil spills, pollution, surface or sub-surface damage, injury to the well, reservoir loss, or damage arising from a well blowout arising out of or in connection with QUALITY'S performance of the job or furnishing of merchandise in accordance with this contract, unless such loss or damage is caused by the willful misconduct or gross negligence of QUALITY or its employees.

2. With respect to any of QUALITY'S tools, equipment, or instruments which are lost in the well or damaged when performing or attempting to perform the job or, in the case of marine operations, are lost or damaged at any time after delivery to the landing for CUS-TOMER and before return to QUALITY at the landing, CUSTOMER shall either recover the lost item without cost to QUALITY or reimburse QUALITY the current replacement cost of the item unless the loss or damage results from the sole negligence of QUALITY or its employees.

3. QUALITY does not assume any liability or responsibility for damages or conditions resulting from chemical action in cements caused by contamination of water or other fluids.

WARRANTIES: 1. QUALITY warrants all merchandise manufactured or furnished by it to be free from defects in material and workmanship under normal use and service when installed, and used, and/or serviced in the manner provided and intended. QUALITY'S obligation under this warranty is expressly limited to repair replacement, or allowance for credit, at its option, for any merchandise which is determined by QUALITY to be defective. THIS IS THE SOLE WARRANTY OF QUALITY AND NO OTHER WARRANTY IS APPLICABLE, EITHER EXPRESS OR OTHERWISE IMPLIED, IN FACT OR IN LAW, INCLUDING ANY WARBANTY AS TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE, CUSTOMER'S sole and only remedy with regard to any defective merchandise shall be the repair or replacement thereof or allowance for credit as herein provided, and QUALITY shall not be liable for any consequential, special, incidental, or punitive damages resulting from or caused by defective materials, products or supplies.

2. More specifically:

(A) Nothing in this contract shall be constructed as a warranty by QUALITY of the success or the effectiveness of the result of any work done or merchandise used, sold, or furnished under this contract.

(B) Nothing in this contract shall be construed as a warranty of the accuracy or correctness of any facts, information, or data furnished by QUALITY or any interpretation of test, meter readings, chart information, analysis or research, or recommendations made by QUALITY, unless the inaccuracy or incorrectness is caused by the willful misconduct or gross negligence of QUALITY or its employees in the preparation or furnishing of such facts, information or data. (C) Work done by QUALITY shall be under the direct supervision and control of the CUSTOMER or his agent and QUALITY will accomplish the job as an independent contractor and not as an employee or agent of the CUSTOMER.

QUALITY OILWELL CEMENTING, INC. Federal Tax I.D.# 20-2886107

| Phone 785-483-2025 Cell 785-324-1041 | Home Office F | P.O. B | ox 32 Rus | sell, KS 67665 | | No. 16 | 385 |
|---|---------------------------------------|------------|--------------|---|------------------------------|-----------|-------------------|
| Date 3-24-17 Sec. | Twp. Range 22 14 | 570 | County | KS ^{State} | On Locatio | 3 | Finish COPM |
| | <u>م</u> | Locati | on 281 + K | (-19 Hung Jo | + - 3w | VIN . | WIINto |
| Lease Seward St | Well No. |) | Owner | 5 | | | |
| Contractor WW 14 Type Job Surface | | | You are here | ilwell Cernenting, Ir by requested to read d helper to assist o | nt cementing equip | | |
| Type Job Surface Hole Size 121/4 " | т.р. 3305 44 | N- | Charge < | Falatas | Fiploiotim | EL | <u>c</u> , . |
| Csg. 85/8" | | 041 | Street | | Laplotomser | | <u> </u> |
| Tbg. Size | Depth | <u> </u> | City | | State | | |
| Tool | Depth | | [| s done to satisfaction | and supervision of c | wner agen | it or contractor. |
| Cement Left in Csg. 15 | Shoe Joint 15 | / | Cement Amo | ount Ordered 450 | , 60/40 4% | C 2' | "/ bel |
| Meas Line | | Ris | 1/2# Flo-50 | end . | | | • |
| EQUIPN | | | Common 2 | 70 | | N. | |
| Pumptrk 16 No. Cementer | avis | | Poz. Mix / 8 | 30 | · . | | · · · · · |
| Bulktrk 19 No. Driver | Ø _r | · · · · · | Gel. | | | | • |
| Bulkerk DU No. Driver 70 | | | Calcium 20 |) | | | · · |
| JOB SERVICES | & REMARKS | | Hulls | | | | |
| Remarks: Cement did | Circula | te | Salt | | | | · · |
| Rat Hole | | | Flowseal | 25 | | | |
| Mouse Hole | : | | Kol-Seal | | | | |
| Centralizers | | | Mud CLR 48 | • | | | |
| Baskets | | | CFL-117 or (| CD110 CAF 38 | | | |
| D/V or Port Collar | | | Sand | | | | |
| | | Å | Handling 4 | 79 | · · | • | |
| | <u> </u> | 6 // | Mileage | | | | |
| A A A A A A A A A A A A A A A A A A A | | | | FLOAT EQUIP | MENT | | |
| | | | Guide Shoe | | | | · · · · |
| | · · · · · · · · · · · · · · · · · · · | | Centralizer | | | | |
| | | | Baskets | | | | |
| | and the design | W | AFU Inserts | <u> </u> | . <i>// _//¹¹</i> | | |
| | | <i>.//</i> | Float Shoe | | | | |
| | | | Latch Down | ······································ | | | |
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| Signature NoolKare | | |] | | Total Ch | arge | |
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