Confidentiality Requested: Yes No

KANSAS CORPORATION COMMISSION **OIL & GAS CONSERVATION DIVISION**

1101143

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.xxxx) (e.gxxx.xxxx) |
| Wellsite Geologist: | Datum: NAD27 NAD83 WGS84 |
| Purchaser: | County: |
| Designate Type of Completion: | Lease Name: Well #: |
| New Well Re-Entry Workover | Field Name: |
| | Producing Formation: |
| ☐ Oil ☐ WSW ☐ SWD ☐ SIOW □ Gas □ D&A □ ENHR □ SIGW | Elevation: Ground: Kelly Bushing: |
| □ OG □ GSW □ Temp. Abd. | Total Vertical Depth: Plug Back Total Depth: |
| 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 #: Dual Completion Permit #: | Dewatering method used: |
| SWD Permit #: | Location of fluid disposal if hauled offsite: |
| ENHR Permit #: | |
| GSW Permit #: | Operator Name: |
| | Lease Name: License #: |
| Spud Date or Date Reached TD Completion Date or | Quarter Sec TwpS. R East West |
| Recompletion Date Recompletion Date | County: 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

| KCC Office Use ONLY |
|---------------------------------|
| Confidentiality Requested |
| Date: |
| Confidential Release Date: |
| Wireline Log Received |
| Geologist Report Received |
| UIC Distribution |
| ALT I II III Approved by: Date: |

| | i age i ne | 1143 |
|-------------------------|-------------|---------|
| Operator Name: | Lease Name: | Well #: |
| Sec TwpS. R East _ West | County: | |

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 | | - | on (Top), Depth ar | | Sample |
|--|----------------------|------------------------------------|----------------------|------------------|--------------------|-------------------|-------------------------------|
| Samples Sent to Geolog | gical Survey | Yes No | Nam | 9 | | Тор | Datum |
| Cores Taken Electric Log Run | | Yes No | | | | | |
| List All E. Logs Run: | | | | | | | |
| | | CASING Report all strings set-o | RECORD Ne | | ion, 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 | | | |
| Purpose: | Depth Top Bottom | Type of Cement | # Sacks Used | | Type and F | Percent Additives | |

| Purpose: Perforate | Depth Top Bottom | Type of Cement | # Sacks Used | Type and Percent Additives |
|-----------------------|---------------------|----------------|--------------|----------------------------|
| Protect Casing | | | | |
| 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 |

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

No

No

No

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

| Shots Per Foot | | PERFORATION Specify Foc | | RD - Bridge P Each Interval F | | e | A | cid, Fracture, Shot, Ce (Amount and Kind | ement Squeeze Record I of Material Used) | Depth |
|--------------------------------------|----------|----------------------------|---------|----------------------------------|---------|---------------------|-------------------------|---|---|---------|
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| TUBING RECORD: | Siz | ze: | Set At: | | Packer | r At: | Liner Ru | n: | No | |
| Date of First, Resumed | Producti | ion, SWD or ENHR | • | Producing N | lethod: | ping | Gas Lift | Other (Explain) | | |
| Estimated Production Per 24 Hours | | Oil Bbl | S. | Gas | Mcf | Wate | er | Bbls. | Gas-Oil Ratio | Gravity |
| DISPOSITIO | ON OF G | AS: | | | METHOD | OF COMPLE | TION: | | PRODUCTION IN | TERVAL: |
| Vented Sold Used on Lease | | | | Open Hole | Perf. | Dually (Submit) | Comp. A <i>CO-5)</i> | Commingled (Submit ACO-4) | | |
| (If vented, Sub | omit ACO | -18.) | | Other (Specify) | | | | | | |

| Form | ACO1 - Well Completion |
|-----------|--------------------------|
| Operator | Rama Operating Co., Inc. |
| Well Name | Wilson 'B' 8 |
| Doc ID | 1101143 |

All Electric Logs Run

| Mel | |
|------|--|
| Ducp | |
| Dil | |
| Bhcs | |

| Form | ACO1 - Well Completion |
|-----------|--------------------------|
| Operator | Rama Operating Co., Inc. |
| Well Name | Wilson 'B' 8 |
| Doc ID | 1101143 |

Tops

| Name | Тор | Datum |
|---------------|------|-------|
| Anhydrite | 1072 | +1024 |
| Herrington | 2148 | -52 |
| Tarkio | 3086 | -990 |
| Heebner | 3641 | -1545 |
| Toronto | 3646 | -1550 |
| Brown Lime | 3758 | -1662 |
| Lansing | 3764 | -1668 |
| Base Lansing | 4065 | -1969 |
| Mississippian | 4218 | -2122 |
| Kinderhook SD | 4257 | -2161 |
| Viola | 4332 | -2236 |
| RTD | 4480 | -2384 |

BASIC energy services, LR

TREATMENT REPORT

| Customer | erra (| DROID | - 1 1 · · · · · | | | | e esta de la de | 1 | | | V Press 1 | |
|--|--------------------|-------------|-----------------|----------|-------------|-------------------------------|--------------------------|-----------|-------------------------------|-----------------|---------------------------------------|--|
| Lease 🛴 | NSW | | 1 | Well# (| 3-8 | ana na shinta Tina | eta en fotos Al fotos | | $\mathbf{b} \cdot \mathbf{b}$ | <u>را − ا م</u> | <u> </u> | |
| Field Order # | | | ł | | Casing | Depth | | County E | Jusa | 23 | State 1/2 5 | |
| Type Job | 'Nou | 3-3 | | 5 | - SK-5 | Formation | | · | Legal D | Description | 1-25-16 | |
| PIPE | E DATA | PERF | | IG DATA | FLUID U | ISED | | TREA | TMENT | RESUME | 21 - 12 - 22 - | |
| Casing Size | Tubing Siz | e Shots/F | t c | 005- | Acid 60/4 | DAOZ | | RATE PRI | ESS | ISIP | | |
| Depth 3 | Depth | From | | 02906 | | <u> </u> | Max | | | 5 Min. | | |
| /olume | Volume | From | Т | e a a | Pad Vijt C. | ellSlake | Min | | | 10 Min. | | |
| Max Press | Max Press | From | Т | 0 | Frac | | Avg | | | 15 Min. | | |
| Vell Conpectio | | ol. From | Т | 0 | | | HHP Used | · k | | Annulus | Pressure | |
| Plug Depth | Packer De | pth From | Т | 0 | Flush 15 | -414- | Gas Volur | ne | | Total Loa | ld - | |
| Customer Rep | presentative | 11.19 | | Station | Manager | webe | 041 | Treater < | Dre- | ie Or | 6.00 | |
| Service Units | 97283 | 37463 | 1995 | 5/210 | 2 | | | | | | | |
| Driver Names | O. Nardo | medica | R | a e O | | | | · . | | | | |
| Casing Tubing Time Pressure Pressure | | | | umped | Rate | | · · · | Ser | vice Log | | | |
| 1.0014 | | | ÷ | | | 1.0 | OLAS | ((+ - | Smith | 1 y m | sec. y | |
| | | | | | | Run | (- 3 | 1, 8 | 5/6 | JUISE | e e e e e e e e e e e e e e e e e e e | |
| | t. | · . | | | | Call | | | | | | |
| L | p ^{reven} | | | | | Primark Concellation with Rig | | | | | | |
| 1 031 | 200 | | . L\ | 3 | 5 | Mr. + | <u>. 70</u> | USV5 | 60, | 100P | or @14.2 | |
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| 1:28 | 250 | | · 2 | 5 | 1/ | . Cei | and the state | OT | 55 | | | |
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620) 672-1201 • Fax (620) 672-3383 Taylor Printing, Inc. 620-672-3656

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TREATMENT REPORT

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| rerg | y ser | <u>vic</u> | e s , <i>L.P.</i> | <u> </u> | | | • . | 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - | regione tare a | | 25 - 11 - 12 - 12 - 12 - 12 - 12 - 12 - | |
|---------------------|--------------|--------------------|--------------------------|---------------|----------|-------------------|-----------|---|---|---|---|--|
| Eustome) | A OPE | r.Co. | INC | _ease No |) | | | | Date | aga sa la sa s Sa sa | e Netra de la composición de la composi En esta de la composición de la composic | and a state of the |
| Lease | San | B' | | چ # Well | | | | 2 - 942 | 11- | 9-1: | 2 | |
| Field Örder # | Station | rott. | Ks | | | Casing | / / Depth | 41.5 | County Ed | ware | ./ c | tate |
| Type Job 5 | 1/2 1 on | . () | Cine C | | Č | NW | Formation | 4480 | | Legal De | scription | (e |
| PIPE | DATA (| PERF | ORATING |) DATA | | FLUID U | • | | | | RESUME | |
| Casing Size ' | Tubing Size | Shots/Fi | t | | Ac | id-005 | ALMI | A FR | ATE PRE | SS | ISIP | |
| Depth 475 | Depth | From | То | | Pr | Pad 005k | SAA: | Max | 5.3= | 4/502 | 5 Min. | |
| Volume ₉ | Volume | From | То | | Pa | to sk | S AAZ | Minfor | RH | | 10 Min. | · · · · · · · · · · · · · · · · |
| Max Press # | Max Press | From | То | | Fr; | Posts | | Avg 🛃 | Η. | | 15 Min. | |
| Well Connection | Annulus Vol. | From | То | | | | | HHP Used | | | Annulus Pres | sure |
| Plug Depth / | Packer Depti | h From | То | | | ush | 120 | Gas Volume | · | | Total Load | <u> </u> |
| Customer Repre | sentative |) RA | NDY | Statio | on Măi | nager <u> </u> | 4y | , M | Treater | 1/ent | | · . |
| Service Units | 18443 | 17463 | 19959 | 210 | 10 | : | / | | | | · · · · | |
| Driver Names | | ni Ke | Steve | <u>I yo</u> f | lenzi | - | | | | | | |
| Time | | Tubing Pressure | Bbls. Pu | / | <u> </u> | Rate | | · : | Sen | vice Log | | ×4 |
| 1200 01 | n | | | | | | ONLoc | . Dis | çuss ! | Safet. | Setur | 2 Plan |
| | | | | | | | Rigla | , ingo | lown | col1. | 715 | |
| 130 | | | • | | | | Rigui | TO R | UN-S | 12 C 4 | 55.14ª | <u>Ś</u> rył |
| 245 | | | | | | | StArt | 5/2 | <u>csj</u> | She | De Joi | st 20 |
| × | | | | | • | | W/R. | eg. Sh | oe ic | <u>usert</u> | | COLLAR |
| | | • • | | | | | cent | lat. | on in | betw | cen 2 | + # 3 |
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| 445 | | - | | | | · · · · | CASIN | 504 | 1475 | CIR | w/ K | <u></u> |
| 545 | | | | 5 | | 4 | Pump | 5-BBI | HZ | <u> </u> | | |
| | | | | 2 | | 4 | Pump | 500 | O GAL | MUG | / Flysi | <u>L 12-BR</u> |
| · · · | | | | 5 | | 4 | Fump | <u>5-6</u> | BL H | | DACET | 1 |
| | | | 4-f- | 8 | | 5 | Mix | + Pam | P 200 | <u>sks</u> | AAZ-C | у |
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| 1006 | | | | | | | Dropt | Top K | ubbrr | Plus. | 5/2,5 | t. Disp |
| | 600 | | · | | | 4 | CAUG | ht Li | <u>`{ </u> | SZ | 15 131 | 3/504 |
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| | | <u></u> | | · · | | · · · | Keye | ASP 1 | <u>73 70</u> | <u>KK</u> | OTI | SMH 20 |
| war t was | 6 | | | | | | WASI | nup_ | <u> 29. 1. 1</u> | <u>, p., `</u> | VRACE | - up . |
| 745 | | | | | | ~ | 125 | <u>C.B-22</u> | <u>XP / e j</u> | <u>† </u> | 20° L1 | 11 |
| | | | | ł i | | | THA. | NKS | × // | eN, | Mike. | 11. |
| | | | | | | | | · · · · | - | | Strue | |
| | NF Hiwa | | P.O. Box | | | | | | | 04 | x (620) 67 | 0 5000 |

10244 NE Hiway 61 • P.O. Box 8613 • Pratt, KS 67124-8613 • (620) 672-1201 • Fax (620) 672-5383 Taylor Printing, Inc. 620-672-3656

Company: Rama Operating Co., Inc. Address: 101 S. Main ST Stafford, Kansas 67578

Contact Geologist: Contact Phone Nbr: Well Name: Location: Pool: State:

Rig Release:

11/9/2012

620-234-5191 Wilson "B" 8 8 5/8" @ 266'

Kansas, Edwards County

API: 15-047-21614-00-00 Field: Wil Country: USA

4:00 PM

Time:

| Petr | ua R. A oleum Geo report for Operating | logist | |
|--|---|---|---------------------------------|
| | Scale 1:240 Impe | rial | |
| Well Name: Surface Location: Bottom Location: API: License Number: Spud Date: Region: Drilling Completed: Surface Coordinates: Bottom Hole Coordinates: Ground Elevation: K.B. Elevation: Logged Interval: Total Depth: Formation: Drilling Fluid Type: | Wilson "B" 8 8 5/8" @ 266' 15-047-21614-00-00 10/30/2012 Ne-Sw-Nw-Nw 4-25s-16w 11/8/2012 982' From North Line & 500' 2087.00ft 2096.00ft 1900.00ft 4480.00ft Viola Chemical mud was displaced | Time: Time: From West Line To: | 3:34 PM 7:50 PM 4480.00ft |
| | SURFACE CO-ORDI | NATES | |
| Well Type: Longitude: N/S Co-ord: E/W Co-ord: | Vertical 982' From North Line 500' From West Line | Latitude: | |
| | LOGGED BY | | |
| Company: Address: Phone Nbr: | Joshua R. Austin, Petroleum 732 NE 110th Ave Stafford, KS 67578 620-546-3960 | - | |
| Logged By: | Geologist | Name: | Josh Austin |
| Contractor: Rig #: Rig Type: Spud Date: TD Date: | CONTRACTOF Sterling Drilling Company 4 mud rotary 10/30/2012 11/8/2012 | Time: Time: | 3:34 PM 7:50 PM |

Deviated

Webstock

ELEVATIONS

K.B. Elevation: 2096.00ft K.B. to Ground: 9.00ft Ground Elevation: 2087.00ft

NOTES

On the basis of the positive structural position and after reviewing the electric logs it was recommended by all parties involved that 5 1/2" production casing be set and cemented at rotary total depth 4480. The following zones should be tested before plugging; Viola, Lansing (K,J,H,F), Toronto

RAMA Operating CO., Inc. well comparison sheet

| | | DRILLING | WELL | | | COMPARIS | SON WELL | |
|-----------------|--------|-----------|--------|---------|------|----------|----------|-------|
| | | Stalling/ | Gartun | a | | WILSON | B #6 | |
| | | | | | | | | |
| [| | | | | | 0 | Struct | ural |
| | 2096 | KB | | | 2094 | KB | Relatio | nship |
| Formation | Sample | Sub-Sea | Log | Sub-Sea | Log | Sub-Sea | Sample | Log |
| Anhydrite | 1078 | 1018 | 1072 | 1024 | 1070 | 1024 | -6 | 0 |
| Herington | 2152 | -56 | 2148 | -52 | 2148 | -54 | -2 | 2 |
| Ft. Riley | 2324 | -228 | 2320 | -224 | 2322 | -228 | 0 | 4 |
| Red Eagle | 2720 | -624 | 2720 | -624 | 2722 | -628 | 4 | 4 |
| Tarkio | 3089 | -993 | 3086 | -990 | 3086 | -992 | -1 | 2 |
| Howard | 3239 | -1143 | 3237 | -1141 | 3234 | -1140 | -3 | -1 |
| Heebner | 3642 | -1546 | 3641 | -1545 | 3640 | -1546 | 0 | 1 |
| Toronto | 3646 | -1550 | 3646 | -1550 | | | | |
| Douglas | 3666 | -1570 | 3667 | -1571 | | | | |
| Brown Lime | 3759 | -1663 | 3758 | -1662 | 3757 | -1663 | 0 | 1 |
| Lansing | 3766 | -1670 | 3764 | -1668 | 3764 | -1670 | 0 | 2 |
| Base KC | 4067 | -1971 | 4065 | -1969 | 4072 | -1978 | 7 | 9 |
| Mississippi | 4220 | -2124 | 4218 | -2122 | 4220 | -2126 | 2 | 4 |
| Kinderhook Sand | 4259 | -2163 | 4257 | -2161 | 4260 | -2166 | 3 | 5 |
| Viola | 4332 | -2236 | 4332 | -2236 | 4331 | -2237 | 1 | 1 |
| Total Depth | 4480 | -2384 | 4480 | -2384 | 4565 | -2471 | | |

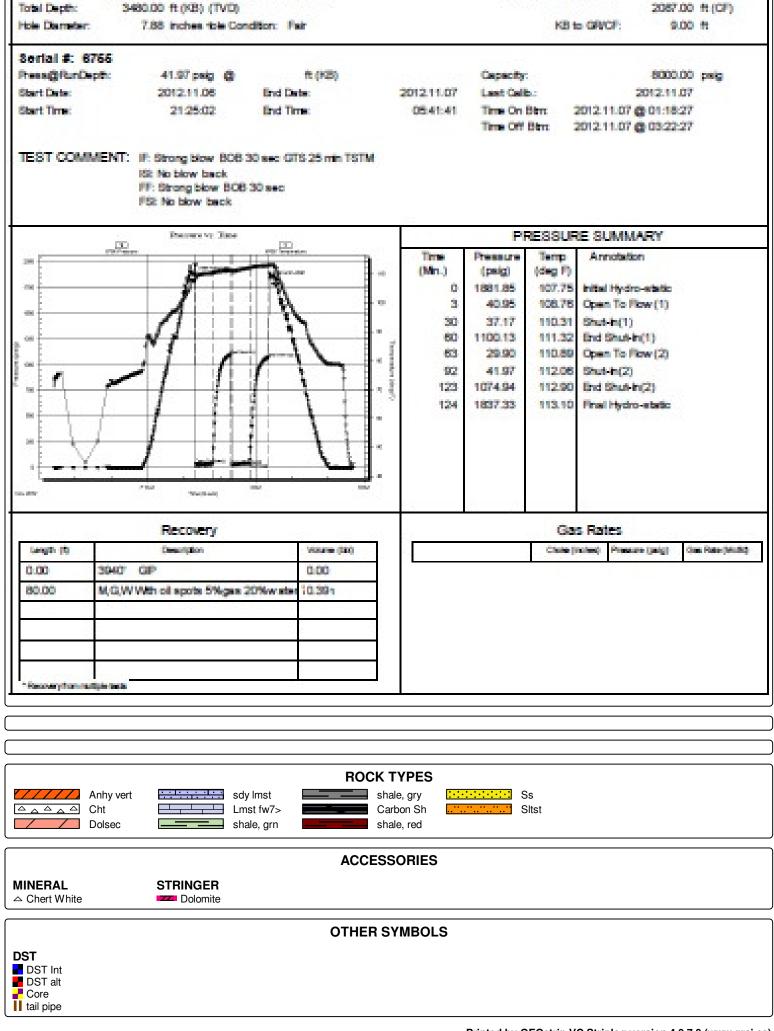
| 目に | RILOBITE | Rame Operating Co Inc | 4-25-16 Edwards Co |
|----|-------------|----------------------------|-----------------------------------|
| 相 | ESTING , NC | 1015 Main | Wilson B #8 |
| | | Stafford KS 67578 | Job Ticket 49870 DST#:1 |
| | | ATTN: Robin Austin/ Josh A | Test Start: 2012.11.03 @ 23:26:13 |

n hisis (In Sa

ft (KEG)

| nterval: 3460.00 ft (KE) To 3460.00 ft (KE) (TVD) Iotal Depth: 3480.00 ft (KB) (TVD) Iota Dameter: 7.85 inches tole Condition: Fair | | Ref • | KB to | ations: GRVOF: | 2096.00 2087.00 9.00 | ft (CP) |
|--|--|--|--|---|---|----------------|
| Serial #: 6765 hess@RunDept: 480.20 psig @ ft (KB) Sert Dete: 2012.11.03 End Dete: Sert Time: 23:25:18 End Time: TEST COMMENT: IF: Strong blow BOB 10 sec GTS 4 min TSTM ISE No blow back FF: Strong blow BOB 2 min gas was TSTM FSE Fair blow back | 2012.11.04 09:22:43 | Capacity: Last Calb Time On E Time Off I | s: Mara 20 | 12.11.04 | 8000.00 2012.11.04 @ 03:37:13 @ 06:44:13 | beg |
| | Time (Min.) 0 33 93 93 95 122 188 187 | Pressure (psig) 1658.49 129.06 293.85 1103.60 335.90 480.20 1095.70 1622.27 | 104.61 112.61 112.58 112.71 114.38 114.03 | SUMM Annotatio Open To II Shut-In(1) End Shut-In(1) Shut-In(2) End Shut-In Shut-In(2) End Shut-In | n o-etatic kwr(1) n(1) kwr(2) n(2) | |
| Image: Internet state Image: Internet state Image: Internet state Image: Internet state Image: Internet state 0.00 3462 GBP 0.00 0.00 80.00 G,M,W 5%gas 45%mud 50%wrster 0.39 0.00 868.00 Weder 100% 10.73 10.73 | | | | Rates (m) Press | ee (paig) Ga | n Para-(studio |

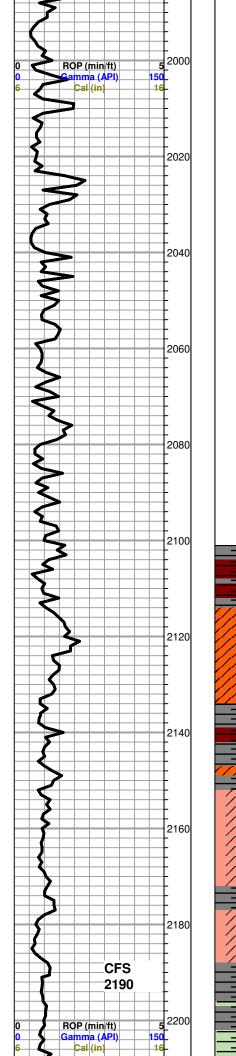
| ORILL STEM TE | EST REPORT |
|--|---|
| Rame Operating Co. Inc | 4-25-16 Edwards Co |
| ESTING , INC TOTS MAIN | Wilson B #8 |
| Stafford KS 67578 | Job Ticket 49671 DST#: 2 |
| ATTN: Robin Austin/ Josh A | Test Start: 2012.11.06 @ 21:24:57 |
| GENERAL INFORMATION: | |
| Formation: Lansing J | |
| Deviated: No Whipstock: ft (KB) | Test Type: Conventional Bottom Hole (Reset) |
| Time Tool Opened: 01:20:57 | Tester: Chris Staats |
| Time Test Ended: 05:41:42 | Unit No: #47 |
| Interval: 3950.00 ft (KB) To 3958.00 ft (KB) (TVD) | Reference Bevations: 2095.00 ft (KB) |



Curve Track #1

Printed by GEOstrip VC Striplog version 4.0.7.0 (www.grsi.ca) TG, C1 - C5

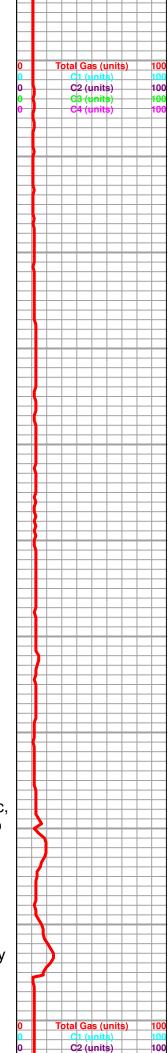
| ROP (min/ft) | | | | | То | tal Ga | s (units) |)) | |
|---|-------------------|-----------|---|-------------------------|-----------|-----------|---------------------|--|--------------------------|
| | als | | | | | (unit | | | |
| Cal (in) | Depth Intervals | | | | | 2 (unit | | | |
| | <u>-</u> | бc | | | | B (unit | | | |
| | abt abt | Lithology | Ď | | | l (unit | | | |
| | | Ŭ Ē | D | Geological Descriptions | | F (unit | 5) | | |
| | val | | | | | | | | |
| | BST Interval | | | | | | | | |
| | STI | | | | | | | | |
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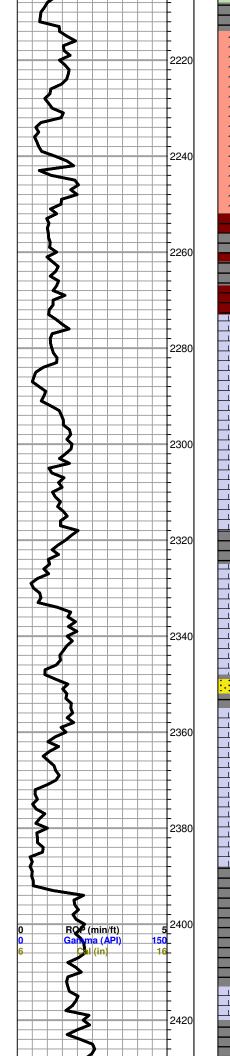


grey-red shale, soft and gummy Anhydrite; grey-It. grey-white grey-dark grey shale **HERINGTON 2152 (-56)** Dolomite; grey-buff, fine xln, slightly sucrosic, poorly developed porosity, shaley in part, no shows grey-brick red shale

> Dolomite; grey-lt. grey, fine-medium xln, slightly micaceous, trace gas bubbles, poorly developed porosity, no shows

grey shale





WINFIELD 2212 (-116)

Dolomite; grey-lt. grey, fine xln, dense, poor porosity, plus grey boney Chert

Dolomite as above plus Chert

Shale; grey-brick red

TOWANDA 2274 (-178)

Limestone; cream-white-lt. grey, fine xln, chalky in part, dense, poor visible porosity, no shows, questionable "gassy" odor, no gas bubbles

Limestone; grey-lt. grey-cream, fine xln, chalky in part, dense, poor porosity, no shows

grey-maroon-green soft, shale

FT. RILEY 2324 (-228)

Limestone; It. grey-white, fine xln, chalky in part, dolomitic, few scattered porosity, trace gas bubbles, no odor

trace Sand; grey, micaceous, glauconitic, no shows

FLORENCE 2356 (-260)

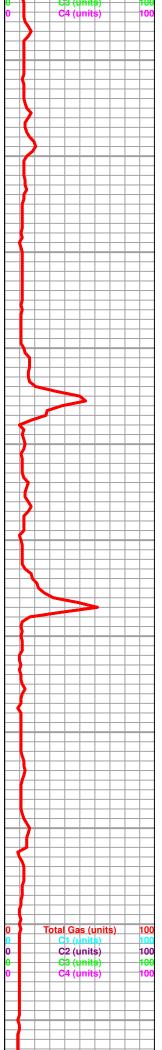
Limestone; cream-It grey, micro-fine xIn, chalky

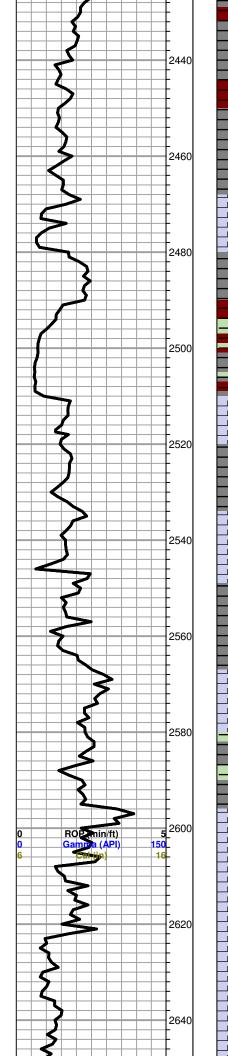
Limestone; as above, finely oolitic in part, scattered porosity, plus cream-lt. grey boney Chert

BASE FLORENCE

Shale; grey-green soft

Limestone; cream-white, fine xln, chalky, dense





Shale; grey, soft, gummy

Abundant Shale as above, brick red-grey

WREFORD 2468

Limestone; cream, fine-medium xln, chalky, trace inter xln porosity, no shows, abundant shale (poor sample)

Shale; grey-green-brick red, soft/gummy

Limestone; cream-white, fine xln, chalky, dense in part, slighlty cherty

grey shale

CROUSE

Limestone; grey-cream, fine-medium xln, granular in part, scattered porosity, no shows

grey soft, gummy, shale

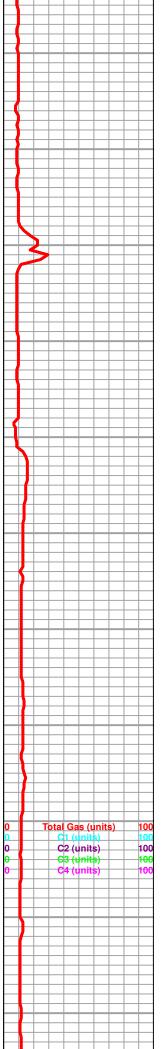
Limestone; tan-buff, highly fossiliferousoolitic, dense in part, poorly developed porosity, no shows

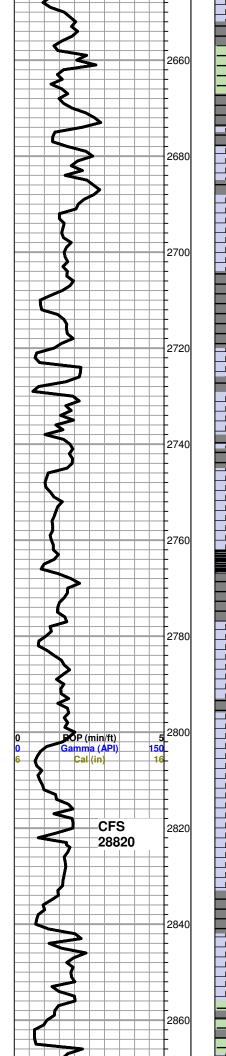
grey-greyish green shale

Limestone; grey-cream, oolitic in part, mottled, dense, poor porosity, no shows

Limestone; as above plus abundant greygreen-maroon shale

Limestone; cream-buff, highly oolitic, few scattered porosity, no shows





Shale; grey-green-red

NEVA 2682 (-586)

Limestone; cream, fine xln, dense, cherty, plus Chert; tan-cream, boney

Limestone; as above

shale; grey-green

RED EAGLE 2720 (-624)

Limestone; grey, fine xln, dense, slightly cherty, trace dolomitic, poor porosity, no shows

Limestone; grey-cream, fine-medium xln, chalky in part, dense, slightly cherty, no shows

black carboniferous shale

Shale; grey-greyish green black carboniferous shale

FORAKER 2783 (-687)

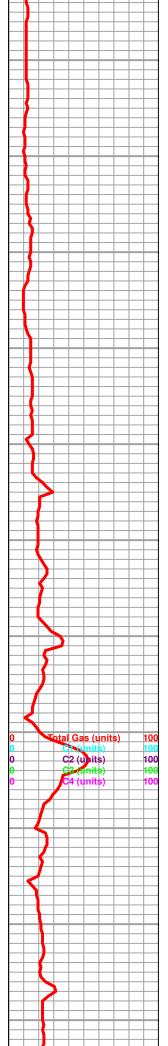
Limestone; cream, highly oolitic, chalky in part, no shows

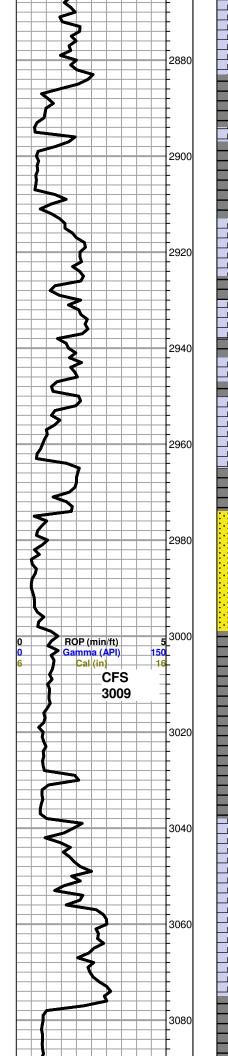
Limestone; cream-white, few oolitic pieces, fine-medium xln, chalky in part, poorly developed inter xln porosity, questionable trace gas bubbles

grey-green-maroon shale, soft/ gummy

Limestone; cream-white, chalky, dense, poor porosity, no shows

grey-green shale, silty in part





Limestone; grey-buff, fine xln, chalky in part, slightly granular, poor porosity, no shows

Shale; grey-greyish green, micaceous in part

Shale as above

WOOD SIDING 2912 (-816)

Limestone; lt. grey-cream, fine-medium xln, few scattered inter xln porosity, no shows

Limestone as above plus grey shale

Limestone; grey-cream, fine xln, dense, chalky in part, poorly developed porosity, no shows

grey-black shale

LANGDON SAND 2980 (-884)

Sand; greyish green-green, sub angular, sub rounded, fine-medium grained, calcareous in part, few glauconitic pieces, trace gas bubbles, no odor

grey-greyish green shale, micaceous in part, silty

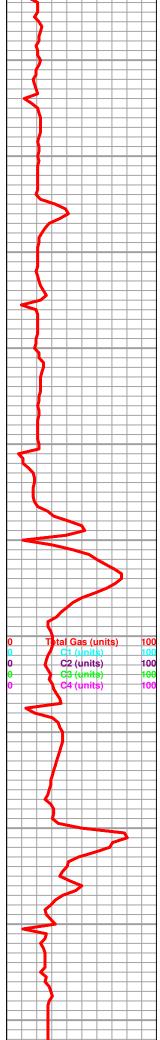
Shale as above silty in part

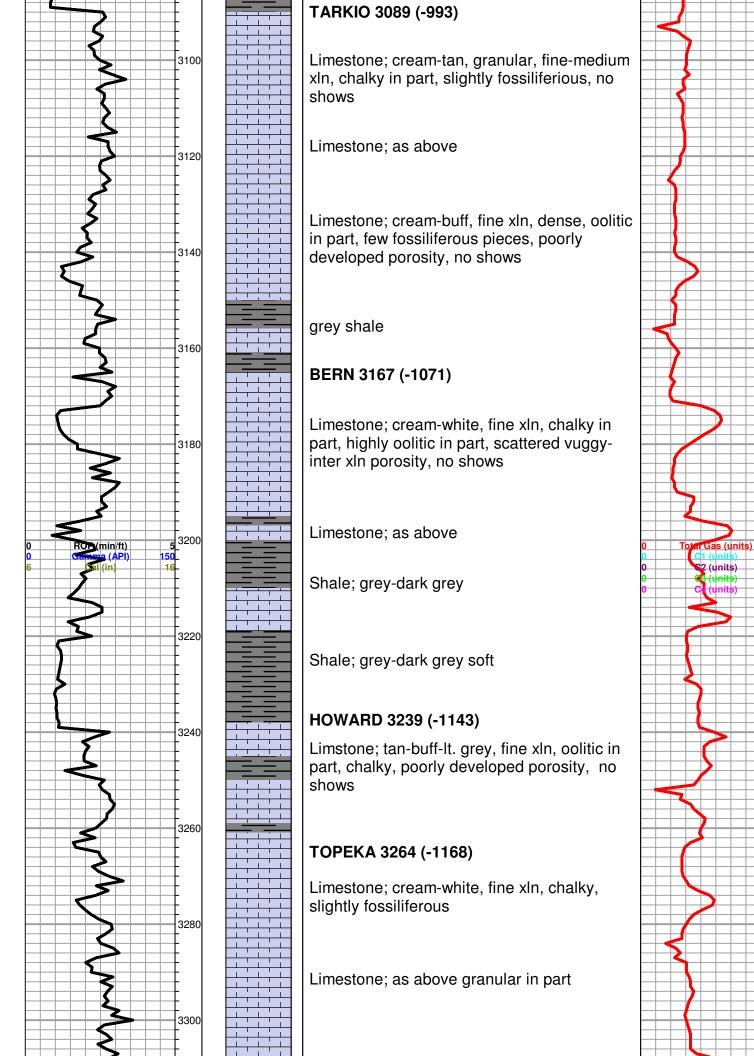
STOTLER 3038

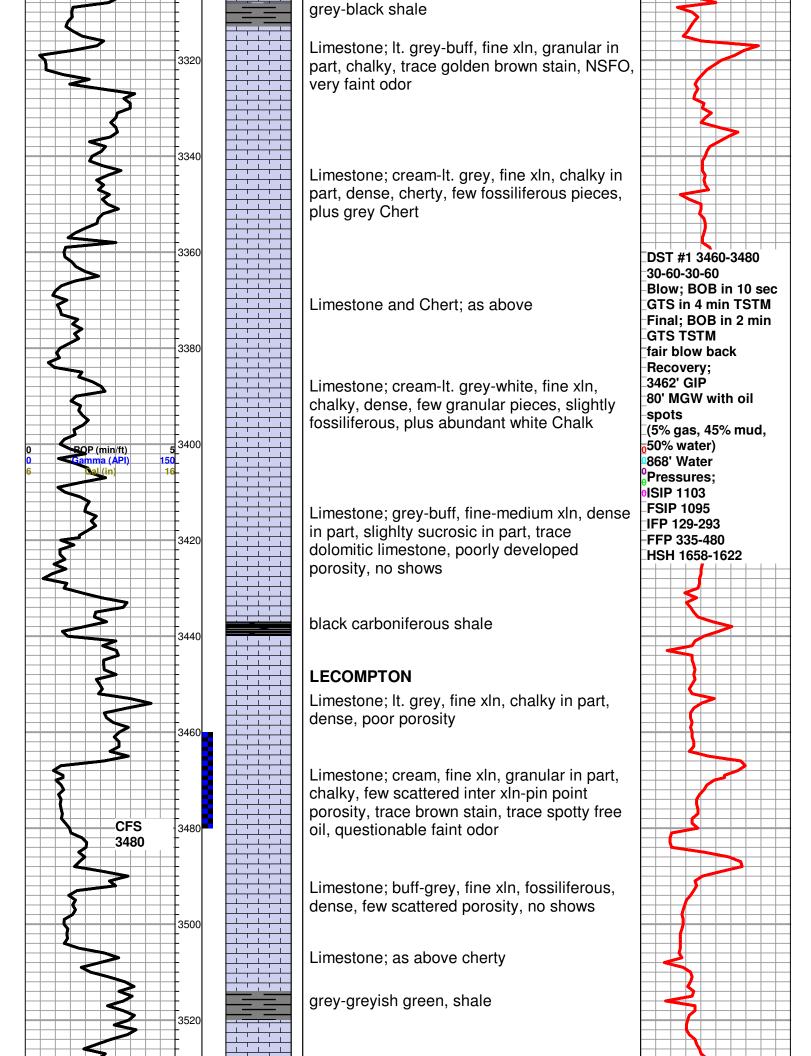
Limestone; buff-tan-cream, oolitic, dense, cherty, poor porosity, no shows

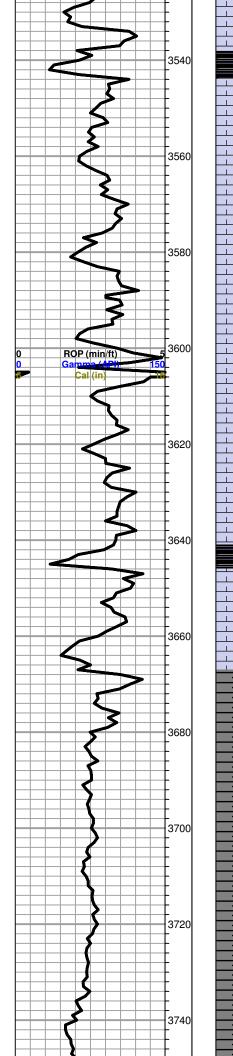
Limestone; as above fine-medium xln, cherty in part

Shale; grey, dark grey, micaceous, silty









Limestone; cream, fine xln, chalky, few inter xln porosity, no shows

black carboniferous shale

Limestone; cream-lt. grey-buff, chalky, microfine xln, poor porosity, no shows

Limestone; as above

Limestone; cream-buff, fine-medium xln, chalky in part, fossiliferous, few granular pieces, no shows

Limestone; tan-buff, fine-medium xln, dense, slighlty cherty, few granular pieces, trace Chert, grey, boney

Limestone; as above

HEEBNER 3642 (-1546)

Black Carboniferous Shale

TORONTO 3646 (-1550)

Limestone; cream, fine xln, chalky, inter xlnpin point porosity, golden brown spotty stain, slight SFO, faint odor

DOUGLAS 3666 (-1570)

grey-greyish green shale

grey-dark grey soft micaceous shale

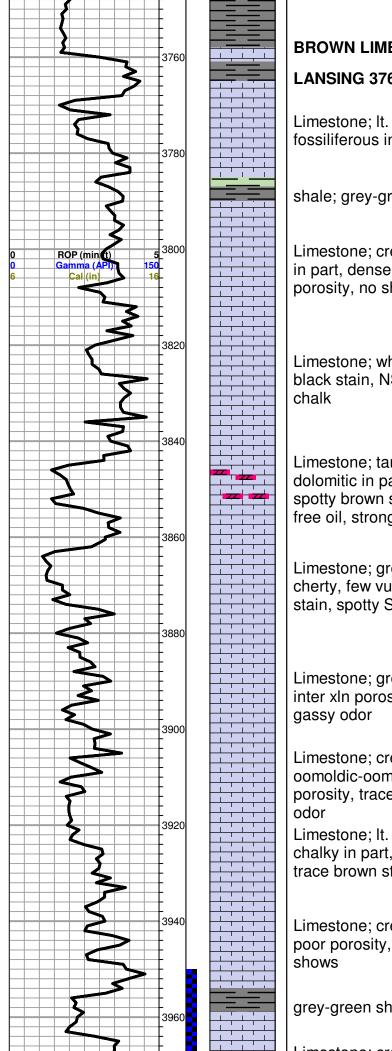
Shale as above

Shale; grey-dark grey-greyish green, micaceous in part, few silty pieces

Shale; a above

Dark grey-grey shale





BROWN LIME 3759 (-1663)

LANSING 3766 (-1670)

Limestone; It. grey, fine xln, chalky, ooliticfossiliferous in part, poor porosity, no shows

shale; grey-green

Limestone; cream-brown-tan, fine xln, chalky in part, dense, oolitic, poorly developed porosity, no show

Limestone; white-cream, fine xln, chalky, black stain, NSFO, faint odor, plus white

Limestone; tan-buff, fine xln, sucrosic, dolomitic in part, trace inter xln porosity, trace spotty brown stain, questionable trace spotty free oil, strong odor

Limestone; grey-cream, fine xln, dense, cherty, few vuggy porosity, trace grey-brown stain, spotty SFO, good gassy odor

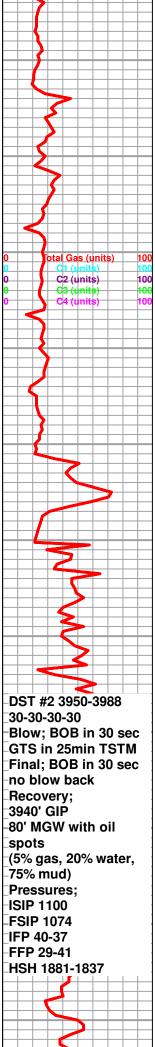
Limestone; grey, dense, chalky in part, few inter xln porosity, cherty, plus grey Chert, fair

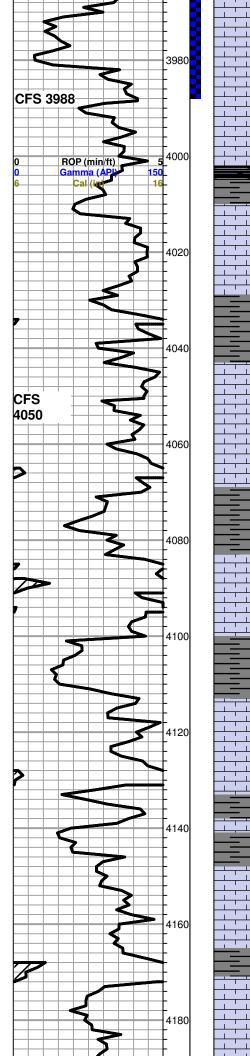
Limestone; cream-grey, chalky, sub oomoldic-oomoldic, fair oomoldic type porosity, trace brown stain, NSFO, gassy

Limestone; It. grey-buff, fine-medium xln, chalky in part, poorly developed porosity, trace brown stain, NSFO, very faint odor

Limestone; cream-lt. grey, fine xln, dense, poor porosity, cherty, plus grey Chert, no

grey-green shale





good oomoldic porosity, brown-black spotty stain, slight SFO, good-strong odor, few gas bubbles

Limestone; cream-white, chalky, fine xln, dense, few black stain, poorly developed porosity, NSFO, plus grey-white boney chert

STARK SHALE (4001 -1905)

black carboniferous shale plus grey-green shale

Limestone; cream-grey-buff, fine xln, chalky in part, few dense, inter xln porosity, brown stain, trace free oil, very faint odor

grey-maroon-greyish green Shale

Limestone; cream-grey, fine xln, chalky in part, few inter xln porosity, no shows

BASE KANSAS CITY 4067 (-1971)

black-grey shale

Limestone; buff, fine xln, dense, cherty in part, poor visible porosity, no shows, plus white chalk

grey-greyish green shale, silty in part

Limestone; cream-white, fine-medium xln, chalky in part, slighlty fossiliferous, poor visible porosity, no shows

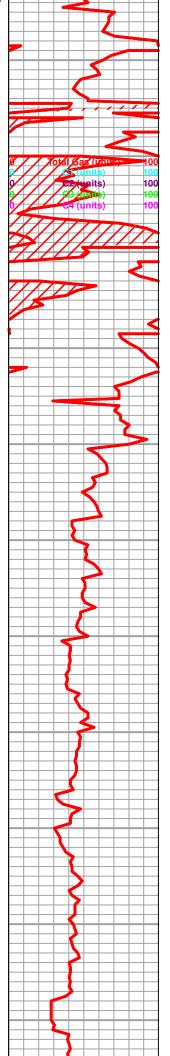
Shale; grey soft/ gummy

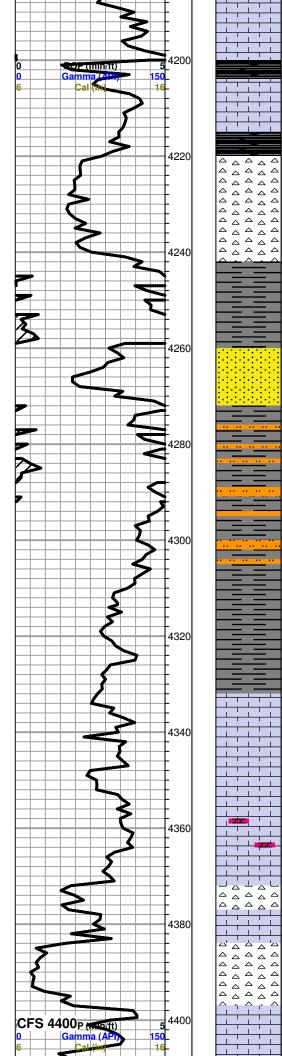
Shale as above

Limestone; It. grey-buff-cream, fine xln, chalky in part, dense, few sparry calcite, slighlty fossiliferous, no shows

black-grey shale

Limestone; cream-grey, fine xln, chalky in part, few fossiliferous pieces, poorly





developed porosity, no snows

black carboniferous shale

MISSISSIPPI 4220 (-2124)

Chert; white-lt. grey, boney, few semi tripolitic, trace black edge staining, NSFO, questionable odor

Chert as above

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grey-greyish green-maroon shale

KINDERHOOK SAND 4259 (-2163)

Sand; greyish green, very fine-fine grained, sub roundered, well cemented, poor inter granular porosity, no shows

Grey-greyish green-dark brown shale, silty in part, few dolomitic pieces

shale; as above

Shale; dark grey-grey soft, few gummy pieces

VIOLA 4332 (-2236)

Chert; It. grey-white, boney, semi tripolitic, no shows

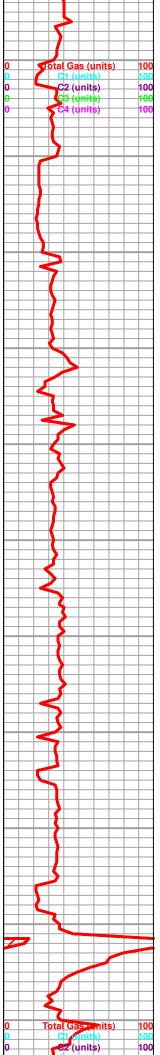
Plus Limestone; cream, fine xln, cherty, no shows

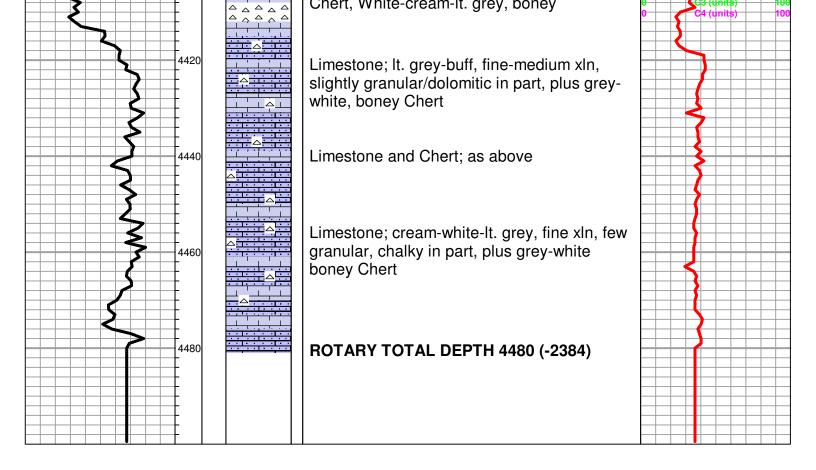
Chert as above, trace limestone; slightly dolomitic, no shows

Limestone; white-cream, fine xln, chalky in part, cherty, plus Chert; white-cream, boney

Chert; cream-lt. grey-buff, tripolitic, boney/fresh, golden brown stain, trace free oil, questionable odor

Limestone; white-cream, fine xln, chalky, poorly developed porosity, no shows, plus





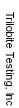
| | RILOBITE | DRILL STEM TES | T REP | ORT | | | | |
|--|--|---|---|--|--------------------|---|---|--------------------------------|
| | | Rama Operating Co Inc | | 4-2 | 5-16 Edv | wards | Co | |
| | ESTING , INC. | 101S Main | | Wi | lson B # | 8 | | |
| | | Stafford KS 67578 | | Job | Ticket: 49 | 9670 | DST# | :1 |
| | | ATTN: Robin Austin/Josh A | | Tes | t Start: 20 |)12.11.(| 03 @ 23:26:13 | |
| GENERAL IN | IFORMATION: | | | | | | | |
| Formation: Deviated: Time Tool Open Time Test Ended | | ft (KB) | | Tes | ter: | Conven Chris Si #47 | tional Bottom H taats | ole (Initial) |
| Interval: Total Depth: Hole Diameter: | 3460.00 ft (KB) To 34 3480.00 ft (KB) (T\ 7.88 inchesHole | | | Ref | erence Ele KB t | evations o GR/C | 2087.0 | 0 ft (KB) 0 ft (CF) 0 ft |
| Serial #: 67 Press@RunDep Start Date: Start Time: TEST COMM | hth: 480.20 psig 2012.11.03 23:26:18 IENT: IF: Strong blow E ISI: No blow back | End Date: End Time: 30B 10 sec GTS 4 min TSTM | 2012.11.04 09:22:43 | Capacity Last Calil Time On Time Off | b.: Btm: 2 | | 8000.0 2012.11.0 1.04 @ 03:37:1 1.04 @ 06:44:1 | 4 |
| | FSI: Fair blow ba | - | | | | | MMARY | |
| 1750 1200 1200 1200 1200 700 700 4. Sun Nov 2012 | 6755 Pressure | C70 Temperature | Time (Min.) 0 3 33 93 95 122 186 187 | Pressure (psig) 1658.49 129.06 293.85 1103.60 335.90 480.20 1095.70 1622.27 | | Initial I Open Shut-I End S Open Shut-I End S | hut-ln(1) To Flow (2) | |
| | Recovery | | | | Ga | s Rate | s | |
| Length (ft) | Description | Volume (bbl) | | | Choke (i | nches) I | Pressure (psig) | Gas Rate (Mcf/d) |
| | 3462 GIP | 0.00 | | | | | | |
| | G,M,W 5%gas 45%mud Water 100% | 50%water 0.39 10.73 | | | | | | |
| 000.00 | vvalei 10070 | 10.75 | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | ting Inc | Ref No: 49670 | | | | | 1 04 @ 09:31:0 | |

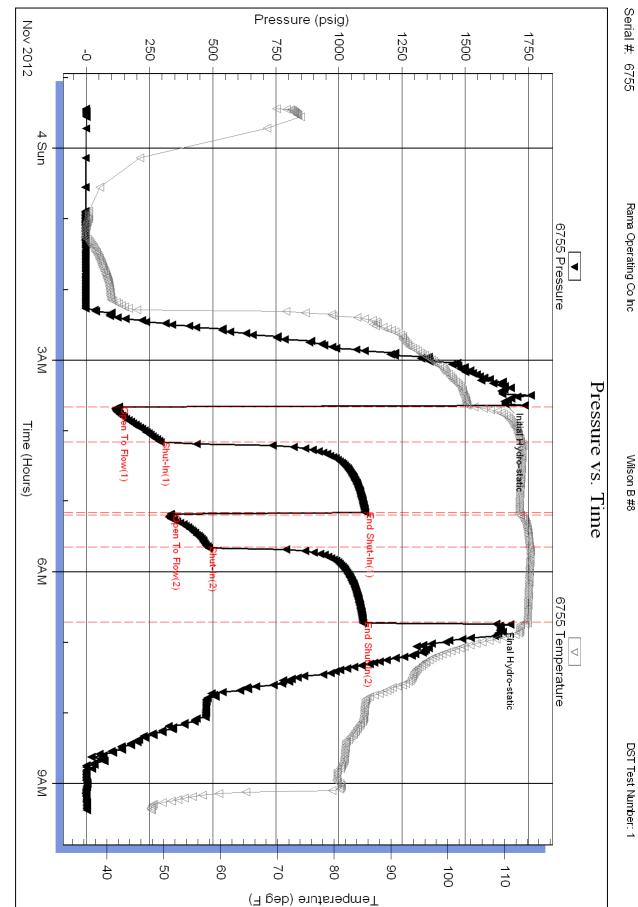
| 1 7 | RILOBITE | DRILL STEWITE | ST REP | ORT | | | |
|---|--|---|------------------------|--|--------------------------------|----------------------|--------------------------------|
| 正地 | | Rama Operating Co Inc | | 4-25-16 E | dwards (| Co | |
| | ESTING , INC. | | | Wilson B | 8 #8 | | |
| | | Stafford KS 67578 | | Job Ticket: | 49670 | DST# | :1 |
| | | ATTN: Robin Austin/ Josh A | | Test Start: | 2012.11.03 | @ 23:26:13 | |
| GENERAL IN | FORMATION: | | | | | | |
| Formation: Deviated: Time Tool Opene Time Test Endeo | | ft (KB) | | Test Type: Tester: Unit No: | Conventic Chris Staa #47 | onal Bottom H ats | lole (Initial) |
| Interval: Total Depth: Hole Diameter: | 3460.00 ft (KB) To 34 3480.00 ft (KB) (TV 7.88 inchesHole | | | Reference K | Elevations: B to GR/CF: | 2087.0 | 0 ft (KB) 0 ft (CF) 0 ft |
| | | | | | | | |
| Serial #: 67 Press@RunDep Start Date: Start Time: | | @ 3461.00 ft (KB)End Date:End Time: | 2012.11.04 09:22:18 | Capacity: Last Calib.: Time On Btm: Time Off Btm: | | 8000.0 2012.11.0 | |
| | FSI: Fair blow ba | ime | | | JRE SUM | MARY | |
| 1720 1200 1200 720 200 4 Sun Nov 2012 | DT3 Pressure | 6AM 9AM | Temperature (deg F) | Pressure Temp (psig) (deg f | | ation | |
| | Recovery | | | | Gas Rates | | |
| Length (ft) | Description | Volume (bbl) | | Choł | e (inches) Pre | essure (psig) | Gas Rate (Mcf/d) |
| | 3462 GIP | 0.00 | | | | | |
| 80.00 | G,M,W 5%gas 45%mud | 50%w ater 0.39 10.73 | | | | | |
| | | 1 10.73 | 1 | | | | |
| | Water 100% | | | | | | |
| | Water 100% | | | | | | |

| | RILOBITE | | LL STEM TEST REPO | | | ID SUMMAR |
|---------------------------|----------------------------------|-----------------|--|---------------|------------------------|-----------|
| | ESTING , INC. | Rama | Operating Co Inc | 4-25-16 | Edwards Co | |
| | ESTING, INC. | 10101 | | Wilson | B #8 | |
| | | Staffo 67578 | | Job Ticket | : 49670 DS | Γ#:1 |
| Messile 1 | | | Robin Austin/ Josh A | Test Start: | : 2012.11.03 @ 23:26:1 | 13 |
| Aud and Cushi | ion Information | ļ | | | | |
| lud Type: Gel Cł | hem | | Cushion Type: | | Oil A PI: | deg API |
| lud Weight: | 9.00 lb/gal | | Cushion Length: | ft | Water Salinity: | ppm |
| iscosity: | 60.00 sec/qt | | Cushion Volume: | bbl | | |
| /ater Loss: | 7.99 in ³ | | Gas Cushion Type: | | | |
| esistivity: | 0.00 ohm.m | | Gas Cushion Pressure: | psig | | |
| alinity: 2 ilter Cake: | 2000.00 ppm 0.02 inches | | | | | |
| ecovery Infor | | | | | | |
| • | | | Recovery Table | | | |
| | Leng ft | | Description | Volume bbl | | |
| | | 0.00 | 3462 GIP | | 000 | |
| | | 80.00 | G,M,W 5%gas 45%mud 50%w ater | | 393 | |
| | | 868.00 | Water 100% | 10.7 | 727 | |
| | Total Length: | 948 | 3.00 ft Total Volume: 11.120 | bbl | | |
| | | | | | | |
| | Num Fluid Samp | oles: 0 | Num Gas Bombs: 0 | Seria | l #: | |
| | Num Fluid Samp Laboratory Nan | | Num Gas Bombs: 0 Laboratory Location: | Seria | l #: | |
| | | me: | | Seria | l #: | |
| | Laboratory Nan | me: | | Seria | l #: | |
| | Laboratory Nan | me: | | Seria | l #: | |
| | Laboratory Nan | me: | | Seria | l #: | |
| | Laboratory Nan | me: | | Seria | l #: | |
| | Laboratory Nan | me: | | Seria | l #: | |
| | Laboratory Nan | me: | | Seria | l #: | |
| | Laboratory Nan | me: | | Seria | l #: | |
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| | Laboratory Nan | me: | | Seria | l #: | |
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| | Laboratory Nan | me: | | Seria | I #: | |
| | Laboratory Nan | me: | | Seria | I #: | |
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| | Laboratory Nan | me: | | Seria | l #: | |
| | Laboratory Nan | me: | | Seria | I #: | |
| | Laboratory Nan | me: | | Seria | l #: | |
| | Laboratory Nan | me: | | Seria | l #: | |

Printed: 2012.11.04 @ 09:31:01

Ref. No: 49670

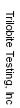


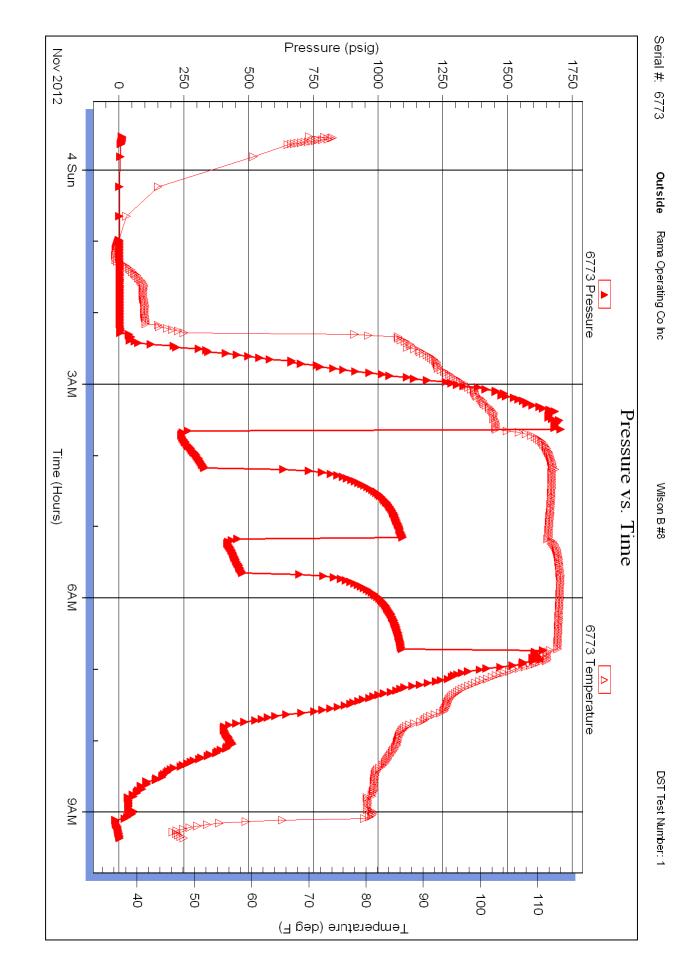


DST Test Number: 1

Printed: 2012.11.04 @ 09:31:02

Ref. No: 49670





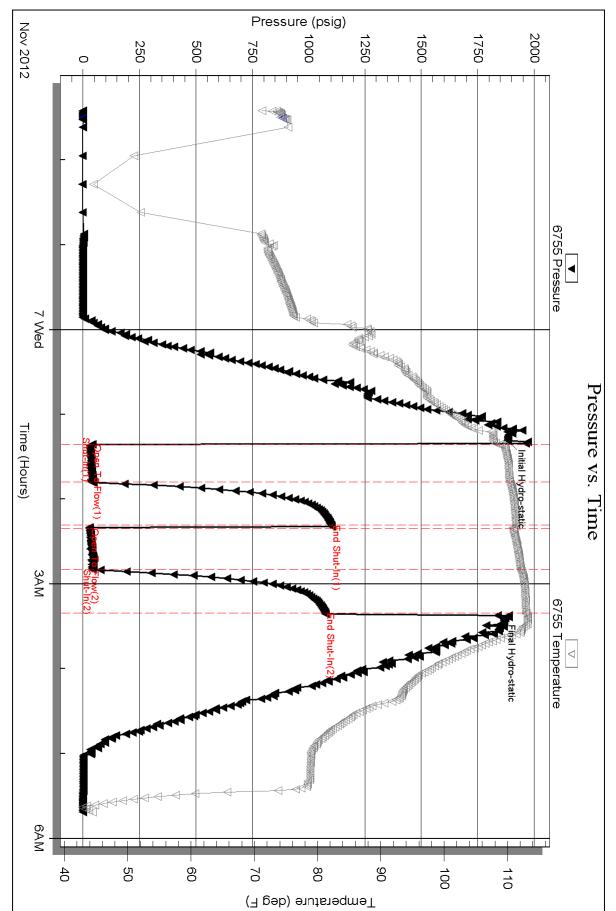
| RILOBITE | DRILL STEM TES | ST REP | ORT | | | | |
|---|--|--|---|---|------------------------------------|----------------------------|-----------------|
| | Rama Operating Co Inc | | 4-2 | 5-16 Edv | wards Co | | |
| ESTING , INC. | 101S Main | | Wil | son B # | #8 | | |
| | Stafford KS 67578 | | Job | Ticket: 49 | 9671 | DST#:2 | 2 |
| | ATTN: Robin Austin/ Josh A | | Test | Start: 20 |)12.11.06 @ | 21:24:57 | |
| GENERAL INFORMATION: | | | | | | | |
| Formation:Lansing JDeviated:NoWhipstock:Time Tool Opened:01:20:57Time Test Ended:05:41:42 | ft (KB) | | Test Test Unit | er: | Conventiona Chris Staats #47 | I Bottom Hol | e (Reset) |
| Total Depth: 3480.00 ft (KB) (T | 9 88.00 ft (KB) (TVD) /D) e Condition: Fair | | Refe | erence Ele | evations: | 2096.00 2087.00 9.00 | ft (CF) |
| | | | | | | 9.00 | |
| Serial #: 6755 Press@RunDepth: 41.97 psig | @ ft (KB) | | Capacity: | | | 8000.00 | nsia |
| Start Date: 2012.11.06 | End Date: | 2012.11.07 | Last Calib | | | 2012.11.07 | Puy |
| Start Time: 21:25:02 | End Time: | 05:41:41 | Time On E Time Off | | 2012.11.07 2012.11.07 | | |
| FF: Strong blow FSI: No blow bac Pressure vs. 1 | ;k ime | | | RESSUF | RE SUMM | ARY | |
| 2000 | | Time (Min.) 0 3 30 | Pressure (psig) 1881.85 40.95 37.17 | Temp (deg F) 107.75 108.76 110.31 | | o-static | |
| | | | 1100.13 | 111.32 | | n(1) | |
| | Norman New Your T | | 29.90 | 110.89 | · · | low (2) | |
| | | becautive 63 92 92 123 123 | 41.97 1074.94 | 112.06 112.90 | Shut-In(2) End Shut-I | n(2) | |
| 700 200 200 200 7 Wied Time (House) | | 124 | 1837.33 | 113.10 | Final Hydro | | |
| Recovery | | | ļļ | Ga | s Rates | | |
| Length (ft) Description | Volume (bbl) | | | Choke (i | | re (psig) Ga | is Rate (Mcf/d) |
| 0.00 3940' GIP | 0.00 | | | • | ! | ! | |
| 80.00 M,G,W With oil spots 5% | gas 20%w ater 70.39n | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| * Deep un (from mult ² =1- ()- | | | | | | | |
| * Recovery from multiple tests | | | | | | | |

| / h | RILOBITE | | ILL STEM TEST REPO | | | LUID SUMMAR | | |
|--------------|----------------------|------------------|--------------------------------------|------------|-----------------------------------|-------------|--|--|
| TECT | ESTING , INC | Rama | Operating Co Inc | 4-25-16 | Edwards Co | | | |
| | ESTING, INC | 101S N | 101S Main | | B #8 | | | |
| | | Staffor 67578 | | Job Ticket | t: 49671 | DST#:2 | | |
| | | | ATTN: Robin Austin/ Josh A | | Test Start: 2012.11.06 @ 21:24:57 | | | |
| /lud and Cu | ushion Information | | | | | | | |
| /lud Type: G | el Chem | | Cushion Type: | | Oil A PI: | deg API | | |
| /lud Weight: | 9.00 lb/gal | | Cushion Length: | ft | Water Salinity: | ppm | | |
| iscosity: | 44.00 sec/qt | | Cushion Volume: | bbl | | | | |
| Vater Loss: | 8.79 in ³ | | Gas Cushion Type: | | | | | |
| esistivity: | 0.00 ohm.m | | Gas Cushion Pressure: | psig | | | | |
| alinity: | 3000.00 ppm | | | | | | | |
| Iter Cake: | 0.02 inches | | | | | | | |
| ecovery Ir | formation | | Recovery Table | | | | | |
| | Leng | nth | Description | Volume | | | | |
| | ft | | Description | bbl | , | | | |
| | | 0.00 | 3940' GIP | | 000 | | | |
| | | 80.00 | M,G,W With oil spots 5%gas 20%w ater | 75%r 0. | 393 | | | |
| | Total Length: | 80 | 0.00 ft Total Volume: 0.393 l | bbl | | | | |
| | Num Fluid Sam | ples: 0 | Num Gas Bombs: 0 | Seria | al #: | | | |
| | Laboratory Nar | me: | Laboratory Location: | | | | | |
| | | | Eaboratory Eooatorn | | | | | |
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| | Recovery Com | | | | | | | |
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Printed: 2012.11.07 @ 07:13:50

Ref. No: 49671

Trilobite Testing, Inc



Rama Operating Co Inc

Serial #: 6755

Wilson B #8

DST Test Number: 2

Conservation Division Finney State Office Building 130 S. Market, Rm. 2078 Wichita, KS 67202-3802



Phone: 316-337-6200 Fax: 316-337-6211 http://kcc.ks.gov/

Mark Sievers, Chairman Thomas E. Wright, Commissioner Shari Feist Albrecht, Commissioner Sam Brownback, Governor

February 12, 2013

Robin L. Austin Rama Operating Co., Inc. 101 S MAIN ST STAFFORD, KS 67578-1429

Re: ACO1 API 15-047-21614-00-00 Wilson 'B' 8 NW/4 Sec.04-25S-16W Edwards County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully, Robin L. Austin