Confidentiality Requested:

Yes No

## Kansas Corporation Commission Oil & Gas Conservation Division

1373788

Form ACO-1 November 2016 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.:   |
|---|--|
| Name:   | Spot Description:  |
| Address 1:  | SecTwpS. R East West                                     |
| Address 2:  | Feet from North / South Line of Section                  |
| City:   | Feet from _ East / _ West Line of Section                |
| Contact Person:   | Footages Calculated from Nearest Outside Section Corner: |
| Phone: ()   | □NE □NW □SE □SW  |
| CONTRACTOR: License #                                   | GPS Location: Lat:, Long:                                |
| Name:   | (e.g. xx.xxxxx) (e.gxxx.xxxxxx)                          |
| Wellsite Geologist:                                     | Datum: NAD27 NAD83 WGS84                                 |
| Purchaser:  | County:  |
| Designate Type of Completion:                           | Lease Name: Well #:                                      |
|   | Field Name:  |
| New Well Re-Entry Workover                              | Producing Formation:                                     |
| ☐ Oil ☐ WSW ☐ SWD                                       | Elevation: Ground: Kelly Bushing:                        |
| ☐ Gas ☐ DH ☐ EOR  | Total Vertical Depth: Plug Back Total Depth:             |
| ☐ OG ☐ GSW  | Amount of Surface Pipe Set and Cemented at: Feet         |
| CM (Coal Bed Methane)                                   |  |
| 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 EOR ☐ Conv. to SWD    | Drilling Fluid Management Plan                           |
| ☐ Plug Back ☐ Liner ☐ Conv. to GSW ☐ Conv. to Producer  | (Data must be collected from the Reserve Pit)            |
| Described   | Chloride content: ppm Fluid volume: bbls                 |
| □ Commingled Permit #:      □ Dual Completion Permit #: | Dewatering method used:                                  |
| ☐ Dual Completion         Permit #:                     | Location of fluid disposal if hauled offsite:            |
| ☐ EOR Permit #:   | Location of fluid disposal if flauled offsite.           |
| GSW Permit #:   | Operator Name:   |
|   | Lease Name: License #:                                   |
| Spud Date or Date Reached TD Completion Date or         | Quarter Sec TwpS. R                                      |
| Recompletion Date  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 Drill Stem Tests Received |  |  |  |  |  |
| Geologist Report / Mud Logs Received            |  |  |  |  |  |
| UIC Distribution                                |  |  |  |  |  |
| ALT I II Approved by: Date:                     |  |  |  |  |  |

Page Two

1373788

| Operator Name:  |   |                             |                                     | I ease Name          | ٥.                        |                            |                                    | Well #:  |                               |  |
|---|---|-----------------------------|-------------------------------------|----------------------|---------------------------|----------------------------|------------------------------------|--|-------------------------------|--|
| Sec Twp   |   |                             |                                     |                      |                           |                            |                                    | <b>VVC</b> II π  |                               |  |
| INSTRUCTIONS: Show open and closed, flowing and flow rates if gas to a          | w important tops<br>g and shut-in pre                               | of formation<br>essures, wh | ns penetrated. If ether shut-in pre | Detail all cores.    | Report all                | final copie<br>I, hydrosta | es of drill stem<br>tic pressures, | ns tests giving interv   | al tested, time tool          |  |
| Final Radioactivity Log, files must be submitted                                |   |                             |                                     |                      |                           | ıst be ema                 | iled to kcc-we                     | ell-logs@kcc.ks.gov  | . Digital electronic log      |  |
| Drill Stem Tests Taken (Attach Additional Sh                                    | neets)  |                             | Yes No                              |                      | Log                       | Formatio                   | on (Top), Dept                     | h and Datum  | Sample                        |  |
| Samples Sent to Geological  | gical Survey  |                             | Yes No                              | N                    | lame                      |                            |                                    | Тор  | Datum                         |  |
| TCores aken<br>Electric Log Run<br>Geologist Report<br>List All E. Logs Run:    | : / Mud Logs  |                             | Yes No<br>Yes No<br>Yes No          |                      |                           |                            |                                    |  |                               |  |
|   |   | Rep                         | CASING                              | RECORD               |                           | Used                       | on, etc.                           |  |                               |  |
| Purpose of String   | Size Hole<br>Drilled  | S                           | ize Casing<br>et (In O.D.)          | Weight<br>Lbs. / Ft. |                           | Setting<br>Depth           | Type of<br>Cement                  | # Sacks<br>Used  | Type and Percent<br>Additives |  |
|   |   |                             |                                     |                      |                           |                            |                                    |  |                               |  |
|   |   |                             |                                     |                      |                           |                            |                                    |  |                               |  |
|   |   |                             | ADDITIONAL                          | CEMENTING / S        | SQUEEZE                   | RECORD                     | I                                  |  |                               |  |
| Purpose:  —— Perforate  —— Protect Casing  —— Plug Back TD                      | Purpose:  Perforate Protect Casing  Depth Top Bottom Type of Cement |                             |                                     | # Sacks Used Typ     |                           |                            | Туре а                             | ype and Percent Additives  |                               |  |
| Plug Off Zone   |   |                             |                                     |                      |                           |                            |                                    |  |                               |  |
| Did you perform a hydra     Does the volume of the     Was the hydraulic fractu | total base fluid of the   | ne hydraulic f              | racturing treatmen                  |                      | -                         | Yes Yes Yes                | No (If No                          | o, skip questions 2 and<br>o, skip question 3)<br>o, fill out Page Three o |                               |  |
| Date of first Production/Inj<br>Injection:                                      | ection or Resumed   | Production/                 | Producing Meth                      | hod: Pumping         | Gas Li                    | ft 🗌 C                     | other (Explain) _                  |  |                               |  |
| Estimated Production<br>Per 24 Hours  | Oil   | Bbls.                       | Gas                                 | Mcf                  | Water                     | В                          | ols.                               | Gas-Oil Ratio  | Gravity                       |  |
| DISPOSITION   | N OF GAS:   |                             | N                                   | METHOD OF COM        | IPLETION:                 |                            |                                    | PRODUCTIO  | N INTERVAL:                   |  |
| Vented Sold   | Used on Leas  | se 🗌                        | Open Hole                           |                      | ually Comp<br>ubmit ACO-5 |                            | nmingled<br>mit ACO-4)             | Тор  | Bottom                        |  |
| Shots Per Per   | foration Per  | foration                    | Bridge Plug                         | Bridge Plug          |                           | Acid                       | Fracture Shot                      | Cementing Squeeze  | Record                        |  |
|   |   | ottom                       | Type                                | Set At               |                           |                            |                                    | Kind of Material Used)   |                               |  |
|   |   |                             |                                     |                      |                           |                            |                                    |  |                               |  |
|   |   |                             |                                     |                      |                           |                            |                                    |  |                               |  |
|   |   |                             |                                     |                      |                           |                            |                                    |  |                               |  |
|   |   |                             |                                     |                      |                           |                            |                                    |  |                               |  |
| TUBING RECORD:  | Size:   | Set At                      | :                                   | Packer At:           |                           |                            |                                    |  |                               |  |

| Form      | ACO1 - Well Completion         |
|-----------|--------------------------------|
| Operator  | Woolsey Operating Company, LLC |
| Well Name | PINKNEY 1                      |
| Doc ID    | 1373788                        |

## Casing

| Purpose<br>Of String | Size Hole<br>Drilled | Size<br>Casing<br>Set | Weight | Setting<br>Depth | Type Of<br>Cement | Type and Percent Additives |
|----------------------|----------------------|-----------------------|--------|------------------|-------------------|----------------------------|
| Surface              | 12.25                | 9.625                 | 24     | 334              | 60/40             | 2% gel,<br>3% cc           |
|                      |                      |                       |        |                  |                   |                            |
|                      |                      |                       |        |                  |                   |                            |
|                      |                      |                       |        |                  |                   |                            |



## TREATMENT REPORT

| _                 |                    |               |                 |                    |             |             |          |          |  |          |             |   |          |  |             |           |  |                                       |
|-------------------|--------------------|---------------|-----------------|--------------------|-------------|-------------|----------|----------|--|----------|-------------|---|----------|--|-------------|-----------|--|---------------------------------------|
| Customer          | 1 Ope              | · ( / ) -     | 1.00            | 12                 | , L         | ease No.    |          | 4        |  |          | · ·         | Date  |          |  |             |           |  |                                       |
| Lease             | ***                |               | 7               |                    | V           | Vell #      |          | : 17     | 4.5  |          |             | //  | 16       | //7  | •           |           |  |                                       |
| Field Order #     | Station            | Pa            | 14              |                    | 45          |             |          | Casing   | 5/8  | Depth    | 334         | County  | Kin      | Wa   |             |           | State  | -5                                    |
| Type Job          | 500                | fai           |                 | P                  | oe.         | •           | 24       | 2        | Form   |          |             |   |          | Legal D  | Pescription | on        |  | <del></del>                           |
| PIPE              | DATA               |               | PER             | ORA                | ΓING        | DATA        |          | FLUID    | USED   |          |             | Т   | REA      | rment  | RESU        | JME       |  |                                       |
| Casing Size       | Tubing Size        | ze            | Shots/F         | t                  |             |             | Acid     | ,        |  |          |             | RATE  | PRE      | SS   | ISIP        | ,         |  |                                       |
| Depth 33c/        | Depth              |               | From            |                    | Ţo :        |             | Pre      | Pad      | ,  |          | Max         |   |          |  | 5 Mir       | n.        |  |                                       |
| Volume<br>26.2858 | Volume             |               | From            |                    | То          | <i>i</i> .  | Pad      |          | ٠  |          | Min         | ·   |          |  | 10 M        | in.       |  |                                       |
| Max Press         | Max Pres           | j             | From.           |                    | То          |             | Frac     |          |  |          | Avg         |   |          |  | 15 M        | lin.      |  |                                       |
| Well Connection   | +                  | $\rightarrow$ | From            |                    | То          |             | <u> </u> |          |  |          | HHP Use     |   |          |  |             | ulus Pre  | essure                                       |                                       |
| Plug Depth        | Packer De          | ٠,            | From            |                    | То          | <del></del> | Flus     |          |  |          | Gas Volu    |   | _        |  | Total       | Load      |  | -                                     |
| Customer Rep      | esentative         | <u> </u>      |                 | 1                  |             | Station     | Mana     | ger .    | West   | 100      | mon         | Treat   | te52     | p//  | <u> </u>    |           |  | · · · · · · · · · · · · · · · · · · · |
| Service Units     | 38950              | 78            | 982             | 867                | 775         | 1990        |          | B 768    |  |          | •           | •   |          |  |             |           |  |                                       |
| Driver<br>Names   | 50011              | 5/2           | lely_           |                    | <del></del> | Pile        | 4        |          |  |          |             |   |          |  |             | ,         |  |                                       |
| Time              | Casing<br>Pressure |               | ubing<br>essure | Bbls               | s. Pum      | nped        | F        | Rate     | -  | -        |             |   | Servi    | ce Log   |             | ÷         |  |                                       |
| 4:15              |                    |               | •               |                    |             |             |          |          | On   | Loc      | alion       | 500   | ferly    | m  | celip       | 29        | Rig  | up                                    |
|                   |                    |               |                 |                    |             |             |          |          | Bica   | i K      | Cin         | 11/6-1  | ion      |  | Cha.        | . <u></u> | dou  |                                       |
| 7:00              | 180                | ·             |                 |                    |             |             |          | 4        | Pur  | ns       | 43          | <u>'/) .                                   </u> | Spuc     | سرم ث  |             |           | · •  |                                       |
| 7:00              | 180                |               |                 |                    | 3           |             |          | /        | 5/0  | 4        | Cel         | men   | 1 **     | 60/  | 10          | PNZ       | <u>,                                    </u> | 70545                                 |
| 7:02              | 6                  |               |                 |                    | 6.6         | 3           | _L       | <u> </u> | 5he  | 14       | dn          | un  |          |  |             |           |  |                                       |
| 7'15              | 0                  |               |                 | <u> </u>           |             |             | <u></u>  | <u> </u> | Rei  | lea      | se P        | lug   |          |  |             |           |  |                                       |
| 7:14              | 100                |               |                 |                    |             |             | _ <      | /        | 5/4  | 1        | D15         | Place   | 100      | ent  |             |           |  |                                       |
| 7:18              | 150                |               |                 | ļ                  | 17.         | 5           |          | 4        | Con  | no       | n-/ (       | ice   | Var      | led  | 10          | <u> </u>  | 1  |                                       |
| 7:20              | 100                |               |                 |                    | 8           |             | 0        | 5        | Sh   | 47       | 1 0         | low   | <u>4</u> | <u>(                                    </u>   |             |           | <u>:</u>                                     |                                       |
|                   | 100                |               |                 |                    |             |             | Q        | 5        | Shi  | 11       | in          | Wr  | 1/2      | ead  | *           |           |  |                                       |
|                   | 0                  |               | ·               |                    |             |             |          |          | Rela   | a        | 10 /        | ine   | L,       | c550   | 11          |           |  |                                       |
| · t               |                    |               | <del></del>     |                    |             |             |          |          | Jos  | <u>5</u> | Car         | mple  | 11       |  |             | <u> </u>  |  |                                       |
|                   |                    |               |                 |                    |             |             |          | -        |  |          |             | . ′   |          |  |             |           |  |                                       |
|                   |                    |               |                 | ļ                  |             |             |          |          |  |          |             |   |          |  |             |           |  |                                       |
|                   |                    |               |                 |                    | •           | :           |          | ·        |  |          | <del></del> |   |          |  |             | ·<br>     |  |                                       |
|                   | :                  |               | ·               |                    |             | <u> </u>    | •        |          |  |          | <u> </u>    |   |          |  |             |           |  | ·                                     |
|                   |                    |               |                 |                    |             |             | •        |          | <u>                                     </u> |          |             |   |          | •  |             |           | <u> </u>                                     |                                       |
|                   |                    |               |                 | <u> </u>           |             | - •         |          |          | ļ  |          |             |   |          |  |             | · ·       |  |                                       |
|                   |                    |               |                 | <u> </u>           |             |             |          |          |  |          |             |   |          |  |             |           |  |                                       |
|                   | •                  | <u> </u>      |                 |                    |             |             |          | •        |  |          |             |   |          |  | ٠           |           |  |                                       |
|                   | _                  |               |                 | <u> </u>           |             |             |          |          | <u> </u>                                     |          |             |   |          | <u>.                                      </u> |             |           |  |                                       |
|                   |                    |               |                 |                    |             |             |          |          |  |          |             |   |          |  |             |           |  |                                       |
| 10244             | NE Hiw             | ay            | 61 • F          | <sup>2</sup> .O. E | Зох         | 8613        | Pra      | itt, KS  | 57124-                                       | 861      | 3 • (62     | 0) 67 <u>2</u>                                  | -120     | 11 • Fa  | x (62       | 0) 67     | <i>7</i> 2-53                                | 83                                    |



## TREATMENT REPORT

| Customer W        |                           | DP-1A              |           | ease No.         | -                                     |                   |   | Date     | 11 1-  | <u> </u>                    |              |  |  |
|-------------------|---------------------------|--------------------|-----------|------------------|---------------------------------------|-------------------|---|----------|--|-----------------------------|--------------|--|--|
|                   | nkne                      |                    |           | ell#             | <del></del> -                         | <u> </u>          |   |          | 11-17-   | -17                         |              |  |  |
| Field Order #     |                           |                    | r         |                  | Casing                                | Dept              | 1500  | County   | Vion 4   |                             | State Hs     |  |  |
| Type Job Z        | -42                       | Plug               | TO Ab     | a nods           | <u></u>                               | Formation         |   | <b>L</b> |  |                             | 75 - ZUW     |  |  |
|                   | DATA                      | ,                  | ORATING   |                  |                                       | USED              |   | Т        | REATMENT   |                             |              |  |  |
| asing Size        | Tubing Sid                | e Shots/F          | t         | •                | Acid ZUS                              | SKS 60            | Vers P  | RATE     | PRESS  | ISIP                        |              |  |  |
| epth              | Depin 50                  | ナ From             | То        |                  | Pre Pad                               | 3 20              | Max   | 7        | 7 70 131   | 5 Min.                      |              |  |  |
| olume             | Volume                    | From               | То        | ż                | Pad .                                 |                   | Min   |          |  | 10 Min. <sub> 7</sub>       |              |  |  |
| ax Press          | Max-Press                 | From               | То        | · <del>7</del> - | Frac                                  | , <b>io</b>       | Ayg 👝 .                                       | -        |  | 15 Min.                     |              |  |  |
| ell Connection    | Annulus V                 | ol.                | То        |                  |                                       |                   | HHP Use                                       | d        |  | Annulus Pr                  | essure       |  |  |
| ug Depth          | Packer De                 | I ⊢rom             | То        |                  | Flush                                 |                   | Gas Volur                                     |          | -  | Total Load                  |              |  |  |
| ustomer Repre     | esentative /              | Allen Di           | (4        |                  |                                       | estern 4          | •   | Treat    | er MATTAI  |                             |              |  |  |
| ervice Units      | 83753                     | A Page             |           | 198              | <del></del>                           | 19889             |   | 6        |  | Ng.                         |              |  |  |
| river<br>ames     | MATTA                     | Trade to a         | U50       | 3017             |                                       | 000               | MICH  |          | ;  |                             |              |  |  |
| Time              | Casing<br>Pressure        | Tubing<br>Pressure | Bbls. Pum | ped              | Rate                                  |                   |   |          | Service Log  |                             |              |  |  |
| المراجعة المراجعة | 100                       |                    | · · ·     |                  | :                                     | <del></del>       | ON location / SAFITCY Meeting                 |          |  |                             |              |  |  |
|                   |                           |                    |           |                  |                                       |                   |   |          | @ 150  | J                           |              |  |  |
| 9:05              |                           | 300                | 25        | -                | 5                                     | Pump 25 bbl warre |   |          |  |                             |              |  |  |
|                   |                           | 22                 | . 12.     | 1                | <u>Ч</u>                              |                   |   |          |  |                             |              |  |  |
| 9.04              |                           | 100                | 13        |                  | 4                                     | STAIT LISPIAGNIAT |   |          |  |                             |              |  |  |
| G. C.             | -                         | 1:5.5              |           | •                | 5                                     | 2 nd plus e 363   |   |          |  |                             |              |  |  |
| 9:54              | winger.                   | 100                | 10        | 1.49             |                                       | niv               | Pump 10 bbl march                             |          |  |                             |              |  |  |
| 9.56<br>10.00     | patr.                     | 175                | . 2       | а, .             | 5 **<br>5                             | 1 < 2.0.44        | mix 75 505 60/40 POZ                          |          |  |                             |              |  |  |
| 10.00             | <del>- \ -</del>          | , 100              |           | gen's            | <u> </u>                              | 2/14/1            | 51A1+ 1,5P.                                   |          |  |                             |              |  |  |
| 10:45             | -                         | <del>.</del>       | 12.5      |                  | +                                     | Mix               | 30 SV   |          |  | <u>ان ' ، '</u>             |              |  |  |
| 10.13             |                           |                    | 7 ( )     | ٠ - جي           |                                       | CMT               | 10 S  | 2.00     | 7 0  |                             |              |  |  |
| 10:30             | RICH<br>Polyton           |                    | 7/        |                  | · · · · · · · · · · · · · · · · · · · | Plug              | RAT   | 1975     |  | 4010                        | <u> </u>     |  |  |
|                   |                           |                    |           | *                | 5                                     | 11.3              | VC717   |          | (04)7  | -13 - 1                     |              |  |  |
|                   | $\neg \uparrow \neg \mid$ |                    |           |                  | •                                     | <del> </del>      | <u>, , , , , , , , , , , , , , , , , , , </u> | •        | Marie Cope   | tike .                      | \$1.00 miles |  |  |
|                   | No.                       |                    |           | a                | <u> </u>                              |                   | ent.  | ٠ سوري   | Tob C  | MPlen                       | 170          |  |  |
|                   |                           |                    |           |                  | 1.                                    |                   | r Maph  |          |  | HANK                        |              |  |  |
|                   |                           |                    |           |                  |                                       |                   |   |          | e e e  | m,'in                       |              |  |  |
|                   |                           |                    | •         |                  |                                       |                   |   |          | Ric  | y = + .0                    | MAICH        |  |  |
|                   |                           |                    |           |                  |                                       |                   |   |          | in the second of | ما هر المارية<br>ما المارية |              |  |  |
|                   |                           | •                  |           |                  |                                       |                   |   |          | -  | សម <b>្</b> ១១              | -            |  |  |
|                   |                           |                    |           |                  | · — <del></del>                       |                   |   |          | ž  |                             |              |  |  |



Woolsey Operating Co

125 N Market Ste 1000 Wichita. KS 67202

ATTN: Joel Gearhart

#### 34-27S-20W Kiowa, KS

#### Pinkney #1

Job Ticket: 63629 **DST#:1** 

Test Start: 2017.11.14 @ 23:44:56

## GENERAL INFORMATION:

Formation: Mississippi

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:44:11
Time Test Ended: 09:01:11

Interval: 4850.00 ft (KB) To 4888.00 ft (KB) (TVD)

Total Depth: 4888.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole (Initial)

Tester: Leal Cason

Unit No: 74

Reference Elevations: 2297.00 ft (KB)

2285.00 ft (CF)

KB to GR/CF: 12.00 ft

Serial #: 6798 Inside

Press@RunDepth: 34.45 psig @ 4851.00 ft (KB) Capacity: 8000.00 psig

 Start Date:
 2017.11.14
 End Date:
 2017.11.15
 Last Calib.:
 2017.11.15

 Start Time:
 23:44:57
 End Time:
 09:01:11
 Time On Btm:
 2017.11.15 @ 02:42:56

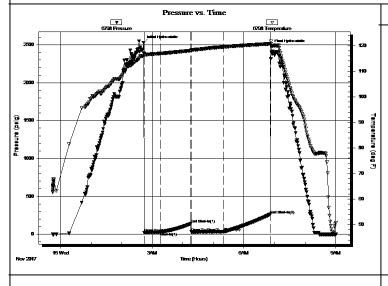
 Time Off Btm:
 2017.11.15 @ 06:53:26

TEST COMMENT: IF: Weak Blow, Built to 1 inch

ISI: No Blow Back

FF: Weak Blow, Built to 1 1/2 inches

FSI: No Blow Back



| Time   | Pressure | Temp    | Annotation           |
|--------|----------|---------|----------------------|
| (Min.) | (psig)   | (deg F) |                      |
| 0      | 2525.23  | 117.13  | Initial Hydro-static |
| 2      | 21.58    | 116.79  | Open To Flow (1)     |
| 33     | 31.71    | 116.97  | Shut-In(1)           |
| 93     | 139.70   | 118.07  | End Shut-In(1)       |
| 94     | 31.73    | 118.29  | Open To Flow (2)     |
| 157    | 34.45    | 119.51  | Shut-In(2)           |
| 249    | 263.42   | 120.73  | End Shut-In(2)       |
| 251    | 2476.14  | 120.73  | Final Hydro-static   |
|        |          |         |                      |
|        |          |         |                      |

#### Recovery

| Length (ft) | Description  | Volume (bbl) |
|-------------|--------------|--------------|
| 20.00       | GCM 5%G 95%M | 0.10         |
|             |              |              |
|             |              |              |
|             |              |              |
|             |              |              |
|             |              |              |
|             |              |              |

#### Gas Rates

| Choke (inches) | Pressure (psig) | Gas Rate (MMcf/d) |
|----------------|-----------------|-------------------|
|----------------|-----------------|-------------------|

Trilobite Testing, Inc Ref. No: 63629 Printed: 2017.11.15 @ 09:21:03



Woolsey Operating Co

34-27S-20W Kiowa, KS

125 N Market Ste 1000 Wichita, KS 67202

Pinkney #1

Job Ticket: 63629

DST#: 1

ATTN: Joel Gearhart

Test Start: 2017.11.14 @ 23:44:56

## GENERAL INFORMATION:

Formation: Mississippi

Deviated: Whipstock: Test Type: Conventional Bottom Hole (Initial) No ft (KB)

Time Tool Opened: 02:44:11 Tester: Leal Cason Time Test Ended: 09:01:11 74

Unit No:

Interval: 4850.00 ft (KB) To 4888.00 ft (KB) (TVD) Reference Elevations: 2297.00 ft (KB) Total Depth: 4888.00 ft (KB) (TVD)

2285.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 12.00 ft

Serial #: 6806 Outside

Press@RunDepth: 4851.00 ft (KB) Capacity: psig @ 8000.00 psig

Start Date: 2017.11.14 End Date: 2017.11.15 Last Calib.: 2017.11.15

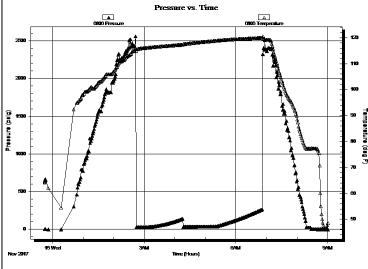
Start Time: 23:44:57 End Time: Time On Btm: 09:01:26 Time Off Btm:

TEST COMMENT: IF: Weak Blow, Built to 1 inch

ISI: No Blow Back

FF: Weak Blow . Built to 1 1/2 inches

FSI: No Blow Back



| PRESSURE SI | JMMARY |
|-------------|--------|
|-------------|--------|

| Ī                   | Time   | Pressure | Temp    | Annotation |
|---------------------|--------|----------|---------|------------|
|                     | (Min.) | (psig)   | (deg F) |            |
|                     |        |          |         |            |
|                     |        |          |         |            |
|                     |        |          |         |            |
|                     |        |          |         |            |
|                     |        |          |         |            |
| į                   |        |          |         |            |
| Tamparatura (dag F) |        |          |         |            |
| 3                   |        |          |         |            |
|                     |        |          |         |            |
|                     |        |          |         |            |
|                     |        |          |         |            |
|                     |        |          |         |            |
|                     |        |          |         |            |
|                     |        |          |         |            |
|                     |        |          |         |            |

#### Recovery

| Length (ft) | Description  | Volume (bbl) |
|-------------|--------------|--------------|
| 20.00       | GCM 5%G 95%M | 0.10         |
|             |              |              |
|             |              |              |
|             |              |              |
|             |              |              |
|             |              |              |

#### Gas Rates

Choke (inches) Pressure (psig) Gas Rate (MMcf/d)

Printed: 2017.11.15 @ 09:21:03 Trilobite Testing, Inc. Ref. No: 63629



**FLUID SUMMARY** 

Woolsey Operating Co

34-27S-20W Kiowa, KS

125 N Market Ste 1000 Wichita, KS 67202 Pinkney #1

Job Ticket: 63629

Serial #:

DST#:1

ATTN: Joel Gearhart

Test Start: 2017.11.14 @ 23:44:56

**Mud and Cushion Information** 

Mud Type:Gel ChemCushion Type:Oil API:deg APIMud Weight:9.00 lb/galCushion Length:ftWater Salinity:ppm

Viscosity: 54.00 sec/qt Cushion Volume: bbl

Water Loss: 8.79 in<sup>3</sup> Gas Cushion Type:

Resistivity: ohm.m Gas Cushion Pressure: psig

Salinity: 5100.00 ppm
Filter Cake: 0.02 inches

## **Recovery Information**

## Recovery Table

| Length<br>ft | Description  | Volume<br>bbl |
|--------------|--------------|---------------|
| 20.00        | GCM 5%G 95%M | 0.098         |

Total Length: 20.00 ft Total Volume: 0.098 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0

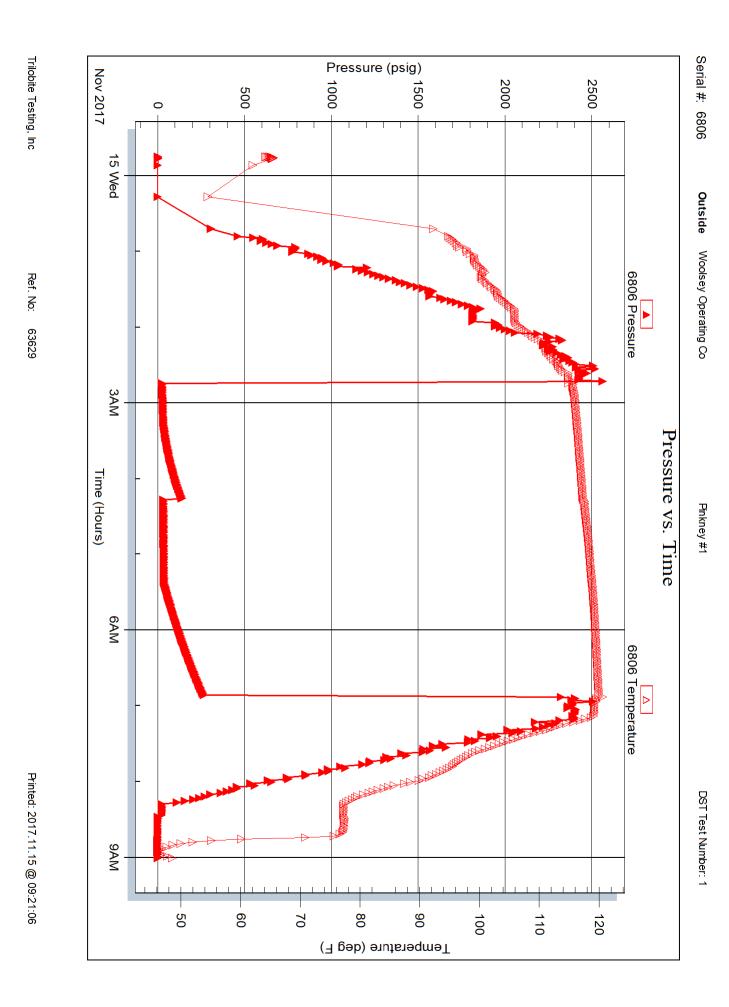
Laboratory Name: Laboratory Location:

Recovery Comments:

Trilobite Testing, Inc Ref. No: 63629 Printed: 2017.11.15 @ 09:21:04

| Serial #: 6798       |
|----------------------|
| Inside               |
| Woolsey Operating Co |
| Pinkney #1           |
| DST Test Number: 1   |

Printed: 2017.11.15 @ 09:21:04





Woolsey Operating Co

125 N Market Ste 1000 Wichita, KS 67202

ATTN: Joel Gearhart

34-27S-20W Kiow

Pinkney 1

Job Ticket: 63630 DST#: 2

Test Start: 2017.11.15 @ 18:16:21

## GENERAL INFORMATION:

Formation: Mississippi

Deviated: Whipstock: No ft (KB)

Time Tool Opened: 20:34:21 Time Test Ended: 02:56:51

Interval: 4882.00 ft (KB) To 4906.00 ft (KB) (TVD)

Total Depth: 4906.00 ft (KB) (TVD)

7.88 inches Hole Condition: Good Hole Diameter:

Test Type: Conventional Bottom Hole (Reset)

Tester:

Leal Cason

Unit No: 74

Reference Elevations:

2297.00 ft (KB)

2285.00 ft (CF) KB to GR/CF: 12.00 ft

Serial #: 6798 Press@RunDepth:

Start Date:

Start Time:

Inside

50.86 psig @ 2017.11.15

18:16:22

4883.00 ft (KB) End Date:

End Time:

2017.11.16

02:56:51

Capacity:

8000.00 psig

Last Calib.:

2017.11.16

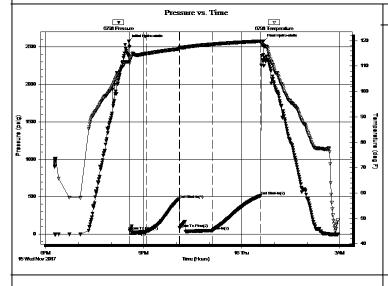
Time On Btm: Time Off Btm: 2017.11.15 @ 20:32:36 2017.11.16 @ 00:39:51

TEST COMMENT: IF: Fair Blow . Built to 5 1/2 inches

ISI: No Blow Back

FF: Fair Blow . Built to 6 inches

FSI: No Blow Back



#### PRESSURE SUMMARY

| Time   | Pressure | Temp    | Annotation           |
|--------|----------|---------|----------------------|
| (Min.) | (psig)   | (deg F) |                      |
| 0      | 2572.37  | 111.62  | Initial Hydro-static |
| 2      | 47.31    | 112.15  | Open To Flow (1)     |
| 32     | 33.95    | 114.90  | Shut-In(1)           |
| 93     | 471.39   | 116.70  | End Shut-In(1)       |
| 94     | 79.58    | 117.11  | Open To Flow (2)     |
| 153    | 50.86    | 118.56  | Shut-In(2)           |
| 243    | 515.38   | 119.77  | End Shut-In(2)       |
| 248    | 2576.80  | 118.31  | Final Hydro-static   |
|        |          |         |                      |
|        |          |         |                      |
|        |          |         |                      |

#### Recovery

| Length (ft)                    | Description | Volume (bbl) |  |  |
|--------------------------------|-------------|--------------|--|--|
| 62.00                          | Mud         | 0.30         |  |  |
|                                |             |              |  |  |
|                                |             |              |  |  |
|                                |             |              |  |  |
|                                |             |              |  |  |
|                                |             |              |  |  |
| * Recovery from multiple tests |             |              |  |  |

#### Gas Rates

Choke (inches) Pressure (psig) Gas Rate (MMcf/d)

Printed: 2017.11.16 @ 10:37:39

Trilobite Testing, Inc. Ref. No: 63630



Woolsey Operating Co

34-27S-20W Kiow

125 N Market Ste 1000 Wichita, KS 67202 Pinkney 1

Job Ticket: 63630 **DST#: 2** 

ATTN: Joel Gearhart

Test Start: 2017.11.15 @ 18:16:21

## **GENERAL INFORMATION:**

Formation: Mississippi

Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Reset)

Time Tool Opened: 20:34:21 Tester: Leal Cason
Time Test Ended: 02:56:51 Unit No: 74

Interval: 4882.00 ft (KB) To 4906.00 ft (KB) (TVD) Reference ⊟evations: 2297.00 ft (KB)

Total Depth: 4906.00 ft (KB) (TVD) 2285.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 12.00 ft

Serial #: 6806 Outside

 Press@RunDepth:
 psig
 @
 4883.00 ft (KB)
 Capacity:
 8000.00 psig

Start Date: 2017.11.15 End Date: 2017.11.16 Last Calib.: 2017.11.16

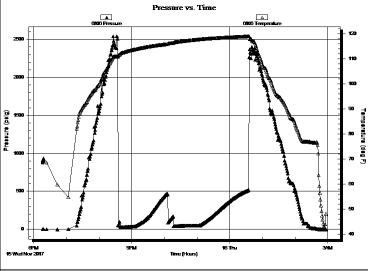
Start Time: 18:16:22 End Time: 02:56:51 Time On Btm: Time Off Btm:

TEST COMMENT: IF: Fair Blow, Built to 5 1/2 inches

ISI: No Blow Back

FF: Fair Blow, Built to 6 inches

FSI: No Blow Back



| PRESSURE | SUMMARY |
|----------|---------|
|----------|---------|

| Ī                   | Time   | Pressure | Temp    | Annotation |  |
|---------------------|--------|----------|---------|------------|--|
|                     | (Min.) | (psig)   | (deg F) |            |  |
|                     |        |          |         |            |  |
|                     |        |          |         |            |  |
|                     |        |          |         |            |  |
| J                   |        |          |         |            |  |
| mp er               |        |          |         |            |  |
| Temperature (deg F) |        |          |         |            |  |
| 0                   |        |          |         |            |  |
| 3                   |        |          |         |            |  |
|                     |        |          |         |            |  |
|                     |        |          |         |            |  |
|                     |        |          |         |            |  |
|                     |        |          |         |            |  |
|                     |        |          |         |            |  |
|                     |        |          |         |            |  |

#### Recovery

| Length (ft)       | Description    | Volume (bbl) |
|-------------------|----------------|--------------|
| 62.00             | Mud            | 0.30         |
|                   |                |              |
|                   |                |              |
|                   |                |              |
|                   |                |              |
|                   |                |              |
| * Recovery from n | nultiple tests | •            |

#### Gas Rates

Choke (inches) Pressure (psig) Gas Rate (MMcf/d)

Trilobite Testing, Inc Ref. No: 63630 Printed: 2017.11.16 @ 10:37:40



**FLUID SUMMARY** 

Woolsey Operating Co

34-27S-20W Kiow

125 N Market Ste 1000

ATTN: Joel Gearhart

Pinkney 1 Job Ticket: 63630

DST#: 2

Wichita, KS 67202

Test Start: 2017.11.15 @ 18:16:21

**Mud and Cushion Information** 

Mud Type: Gel Chem Mud Weight:

Oil API:

deg API

Resistivity:

9.00 lb/gal 54.00 sec/qt

Cushion Type: Cushion Length: Cushion Volume:

Water Salinity:

ppm

Viscosity: Water Loss:

8.78 in<sup>3</sup> ohm.m

Gas Cushion Type:

Gas Cushion Pressure:

psig

Serial #:

ft

bbl

5100.00 ppm Salinity: Filter Cake: 0.02 inches

## **Recovery Information**

## Recovery Table

| Length<br>ft | Description | Volume<br>bbl |  |
|--------------|-------------|---------------|--|
| 62.00        | Mud         | 0.305         |  |

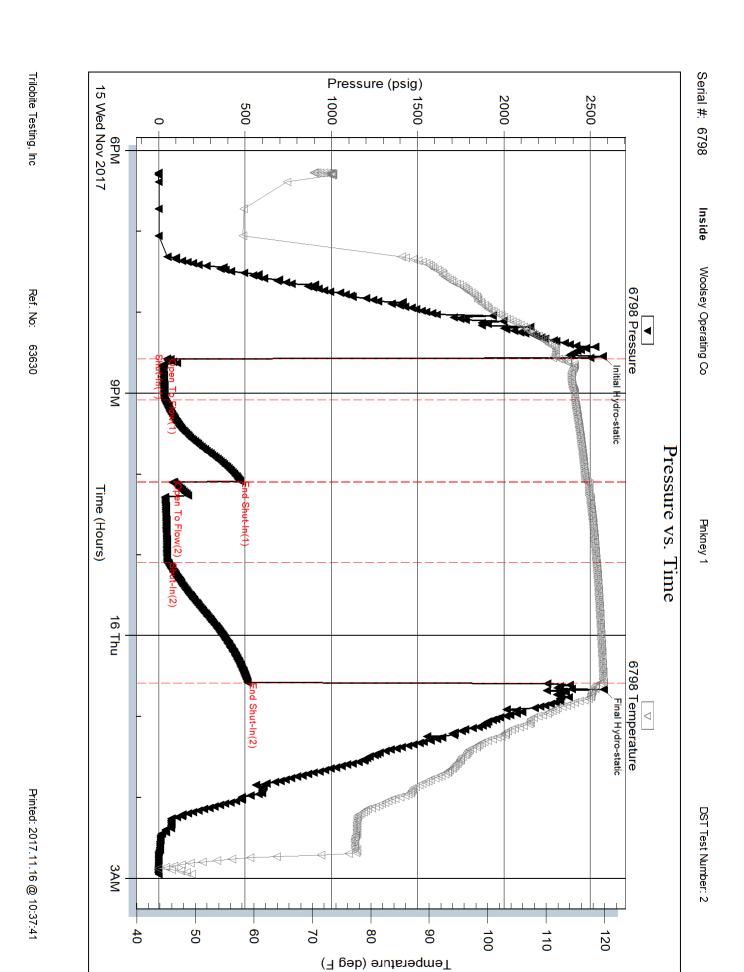
Total Length: 62.00 ft Total Volume: 0.305 bbl

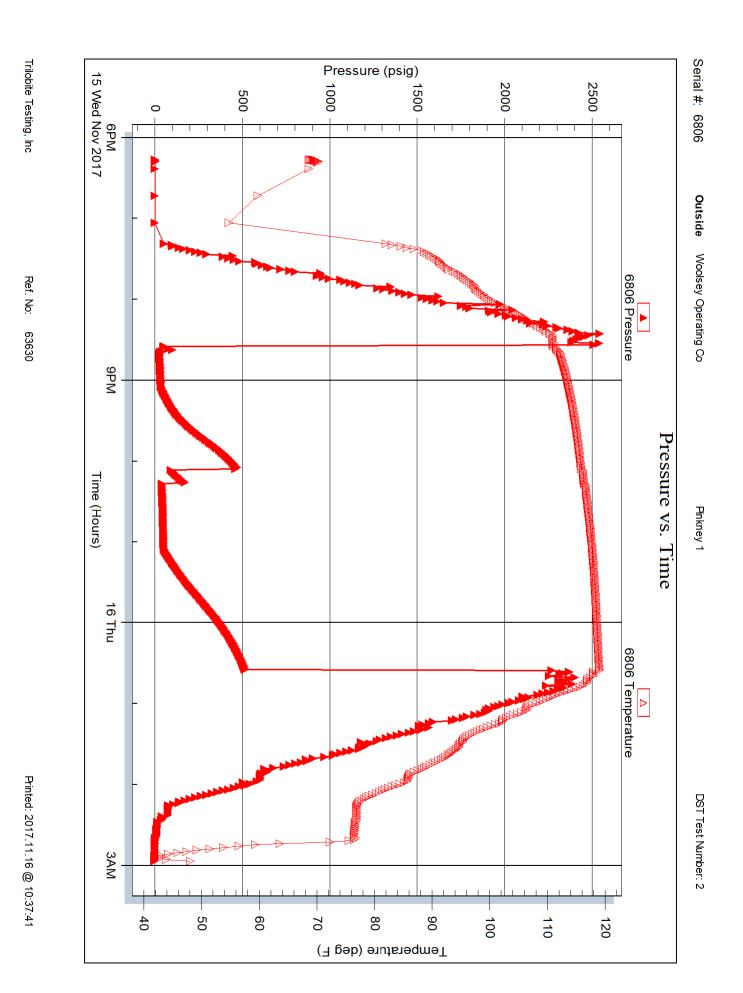
Num Fluid Samples: 0 Num Gas Bombs: 0

Laboratory Name: Laboratory Location:

Recovery Comments:

Printed: 2017.11.16 @ 10:37:40 Trilobite Testing, Inc Ref. No: 63630







## Woolsey Operating Company, LLC

Scale 1:240 (5"=100') Imperial Measured Depth Log

Well Name: Pinkney #1 API: 15-097-21830-0000

Location: Section 34 - Township 27 South - Range 20 West

License Number: Region: Kiowa County, Kansas

Spud Date: November 6, 2017 Drilling Completed: November 16, 2017

Surface Coordinates: N 1/2 NW SW SE

1000' FSL & 2310' FEL

**Bottom Hole** Coordinates:

Ground Elevation (ft): 2285' K.B. Elevation (ft): 2297' To: TD Logged Interval (ft): 4060' Total Depth (ft): 5100'

Formation: Topeka >> Mississippian Type of Drilling Fluid: **Chemical Mud** 

Printed by MUD.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

#### OPERATOR

Company: Woolsey Operating Company,LLC

125 N. Market, Suite 1000 Address:

Wichita, KS 67202

#### **GEOLOGIST**

Name: Bill Klaver, Joel Gearhart Company: Woolsey Operating Co. LLC

Address: 125 N. Market, Wichita Kansas, 67202

#### COMMENTS

Surface Casing: Set 8 joints 8 5/8" x 24#/ft new surface casing at 334' KB (tally 322') w/170 sx 60/40 poz, 2% gel, 3% cc, 1/4# celoflake. Cement did circulate. Plug down 7 pm on 11/6/2017.

**Production Casing:** 

Deviation Surveys: 1/4 at 335', 1/4 at 875', 3/4 at 1381', 1/4 at 1651', 1/2 at 2165', 1 at 2666', 3/4 at 3137', 1/4 at

3639', 1/4 at 4171', 3/4 at 4888', 1 at 5100'

Pipe Strap @

Fossil Drilling Rig 3 Bit Record:

1) 12 1/4" RR in at 0' out at 335', 3.5 hrs

2) 7 7/8" Varel V516 PX (PDC) in 335', out 4888', 120.75 hrs

3) 7/78" T60-5X in 4888', out 5100', 33 hrs

Gas Detector: Pason Gas Analyzer

Mud System: Mud-Co

DST: Triobite Testing - Leal Cason

#### **DSTs**

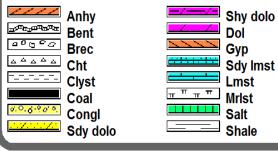
- 1: Miss (4850-4888) 30-60-60-90, (1) WB, (2) WB, 20' GCM, [140-264], FP 22-32/32-35, HP 2525-2476
- 2: Miss (48852-4906) 30-60-60-90, (1) FB, (2) FB, 62' M, [471-515], FP 47-34/80-51, HP 2572-2576

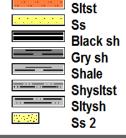
#### **CREWS**

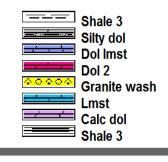
Fossil Drilling Rig 3

Tool Pusher: Rick Barringer Daylight: Pablo Luna **Evening: Gary Axtell** Morning: Chris Slaats

## **ROCK TYPES**







#### **ACCESSORIES**

MINERAL Anhv **Anhy** Arg В **Bent**  $\overline{\square}$ Bit <u>≅</u> **Brecfrag** Calc ▣ Carb ٠ Chtdk Δ Chtlt  $|\mathcal{I}|$ Dal

• Chlorite \_ Dol .\* Sand SIty

FOSSIL Alo Algae  $\blacksquare$ Amph ъ Belm  $\cap$ **Bioclst** Φ Drach

 $\nabla$ Pelec Ø Pellet 0 **Pisolite** Ø Plant ш Strom  $\circ$ **Fuss Oomoldic** 

**STRINGER** Anhy

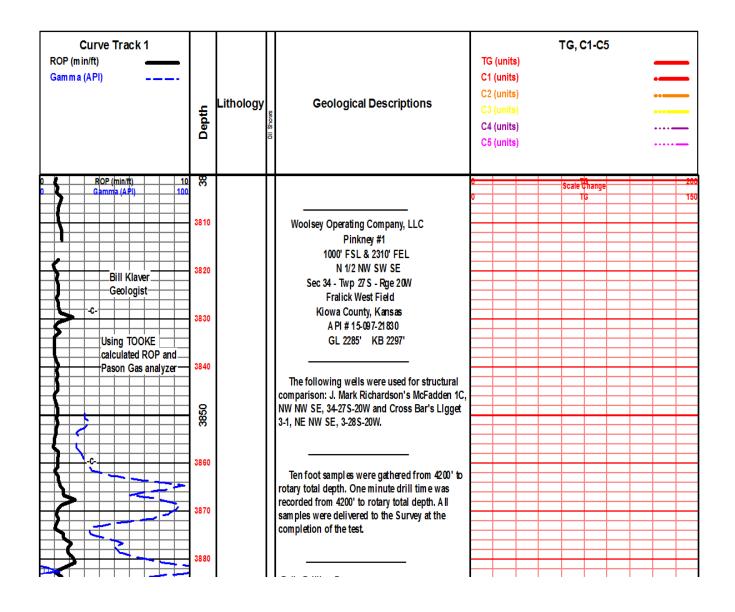
Lms Sandylms Sh Sltstn **TEXTURE Boundst** 

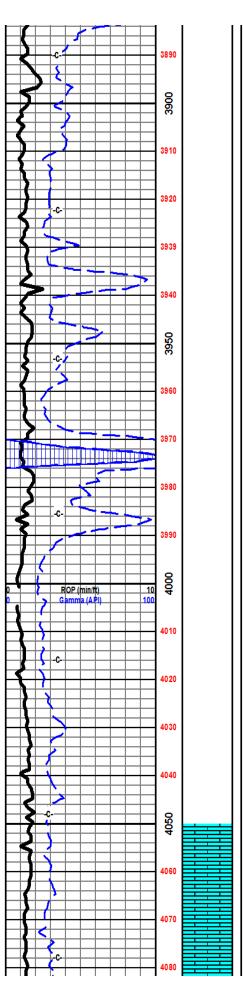
Grysh

Gryslt

Chalky Cx Cavin

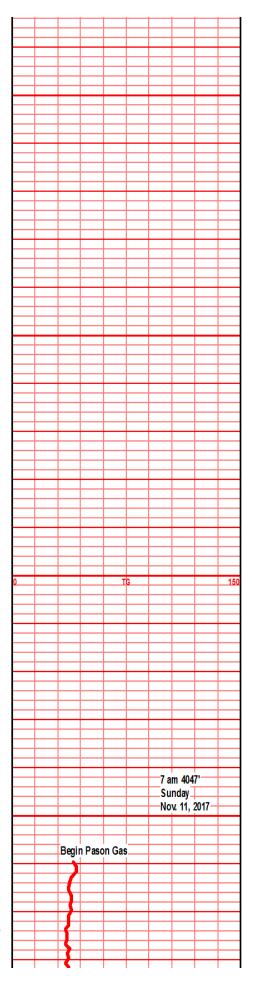
|  | Ferrpel Ferr Glau Gyp Marl Nodule Phos Pyr Salt Sandy Silt |  | Fich | <del></del> | Coal Dol Gyp Ls Mrst Sitstrg Ssstrg Carbsh Clystn |  | Earthy FinexIn Grainst Lithogr MicroxIn Mudst Packst Wackest |
|--|--|--|------|-------------|---|--|--|
|--|--|--|------|-------------|---|--|--|



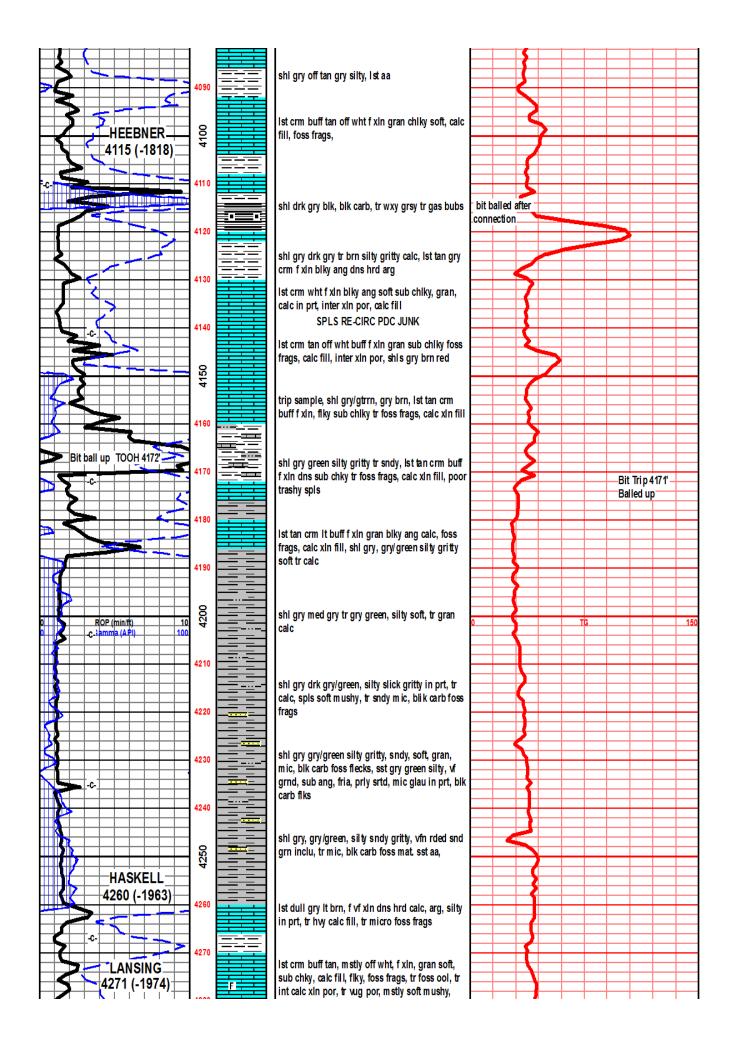


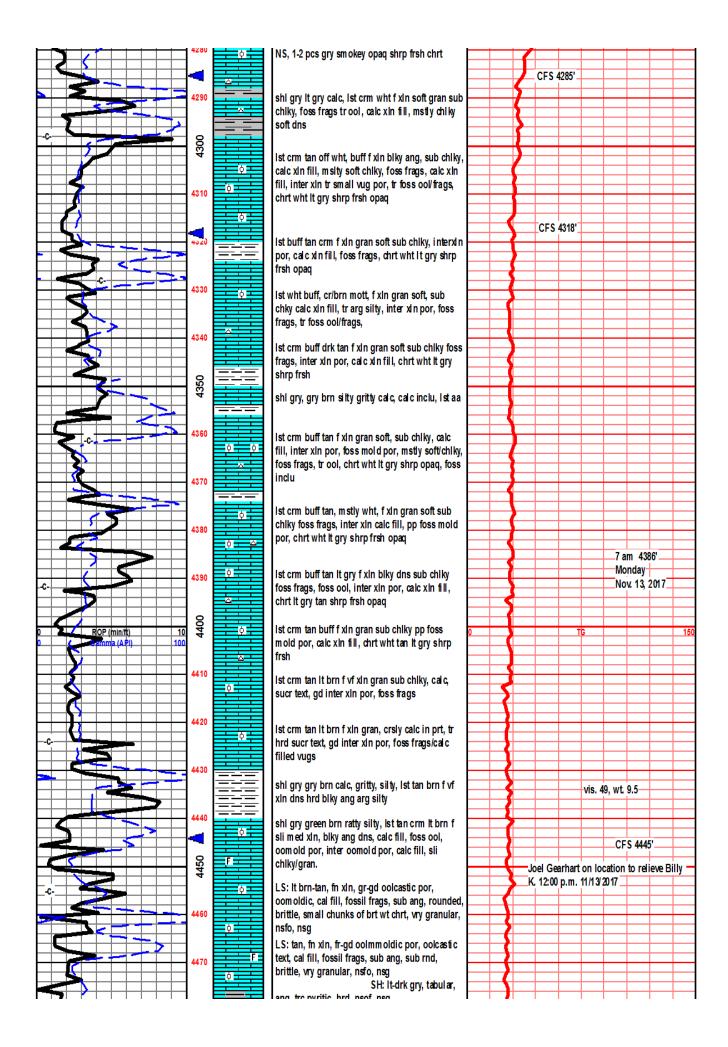
Daily Drilling Progress:
November 3, 2017 MIRT
November 6, 2017 Spud
November 7, 2017 Under surface
November 8, 2017 Drilling at 1475'
November 9, 2017 Drilling at 2180'
November 10, 2017 Drilling at 3026'
November 11, 2017 Drilling at 3255
November 12, 2017 Drilling at 4047'
November 13, 2017 Drilling at 4769'
November 14, 2017 Drilling at 4769'
November 15, 2017 HD: 4888', DST #1
November 16, 2017 Drilling at 4921'

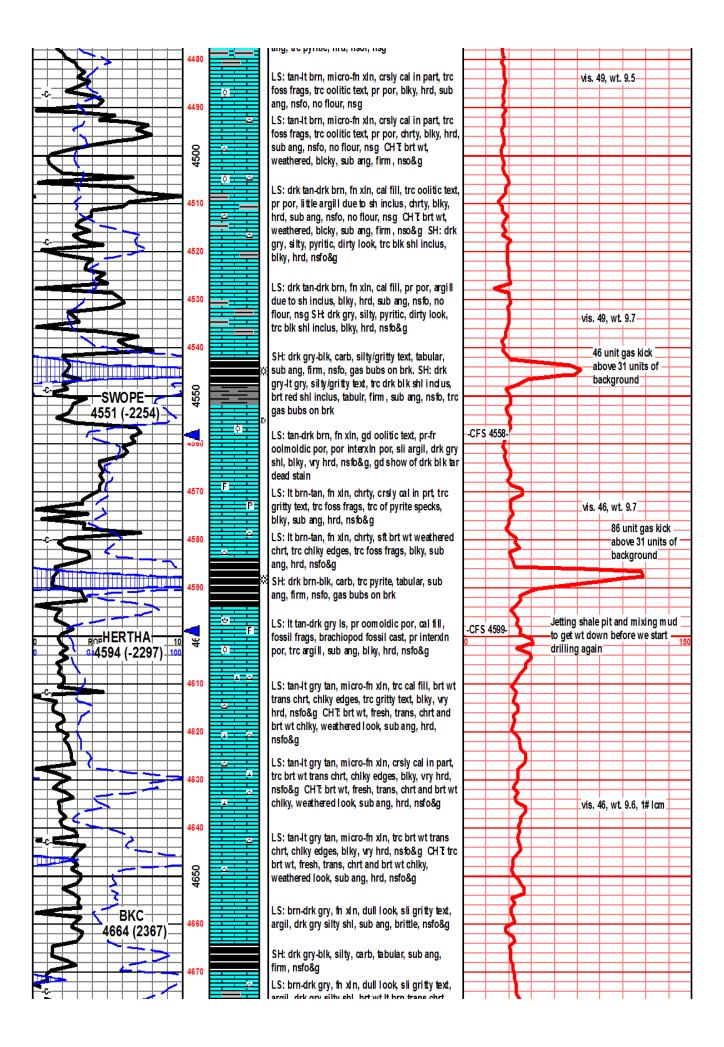
| Form ation | Sam ple      | E-log           |
|------------|--------------|-----------------|
| Heebner    | 4108 (-1811) | 4111 (-1968)    |
| Toronto    | 4130 (-1833) | 41 29 (-1 83 4) |
| Douglas    | 4154 (-1857) | 4150 (-1855)    |
| Haskell    | 4260 (-1963) | 4263 (-1968)    |
| Lans A     | 4271 (-1974) | 4274 (-1979)    |
| Lans B     | 4298 (-2001) | 4301 (-2006)    |
| Stark      | 4542 (-2245) | 4545 (-2250)    |
| Swope      | 4551 (2254)  | 4558 (-2263)    |
| Hush       | 4586 (-2289) | 4589 (-2294)    |
| Hertha     | 4594 (-2297) | 4600 (-2305)    |
| BKC        | 4664 (-2367) | 4666 (-2371)    |
| Pawnee     | 4756 (-2459) | 4757 (-2462)    |
| Ck Grp     | 4806 (-2509) | 4806 (-2511)    |
| Miss       | 4868 (-2571) | 4871 (-2576)    |
| Spergen    | 4868 (-2571) | 4868 (-2571)    |
| Warsaw     | 4876 (-2579) | 4875 (-2580)    |
|            |              |                 |

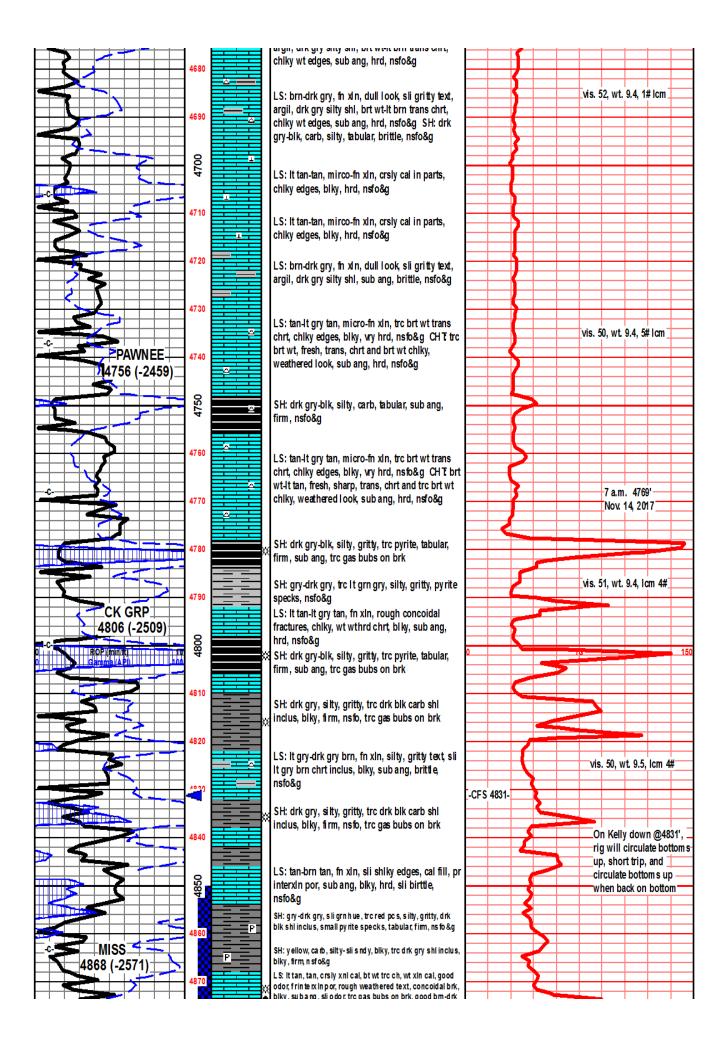


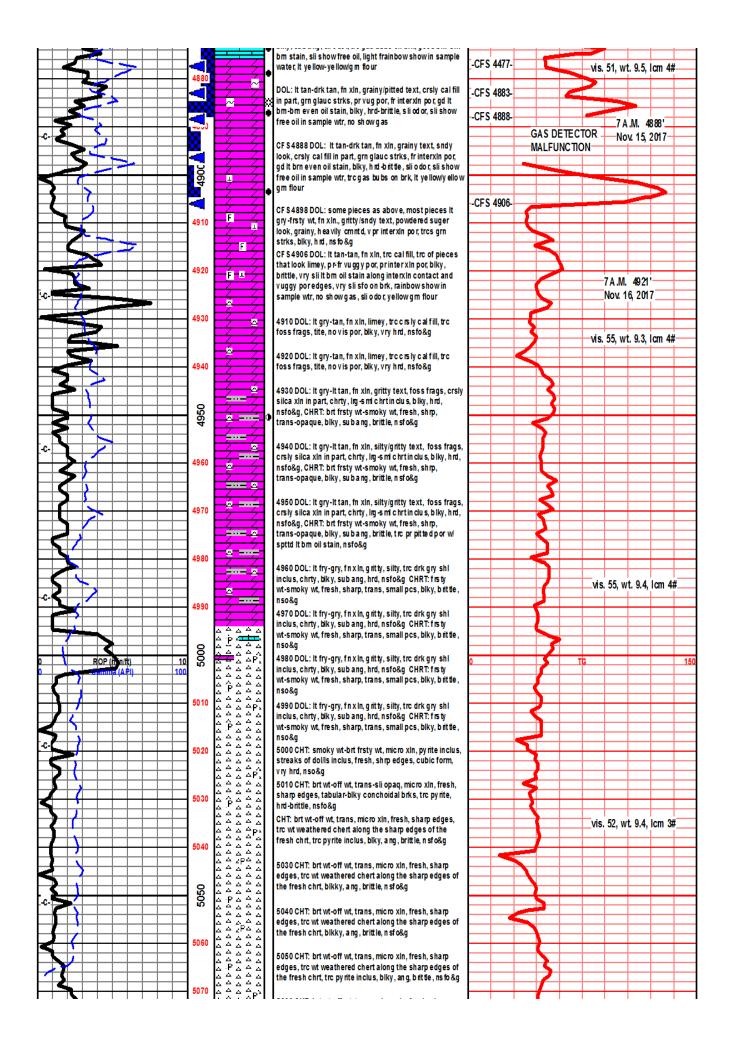
Ist crm off wht It buff f xin gran soft chiky crsly calc fill foss frags,

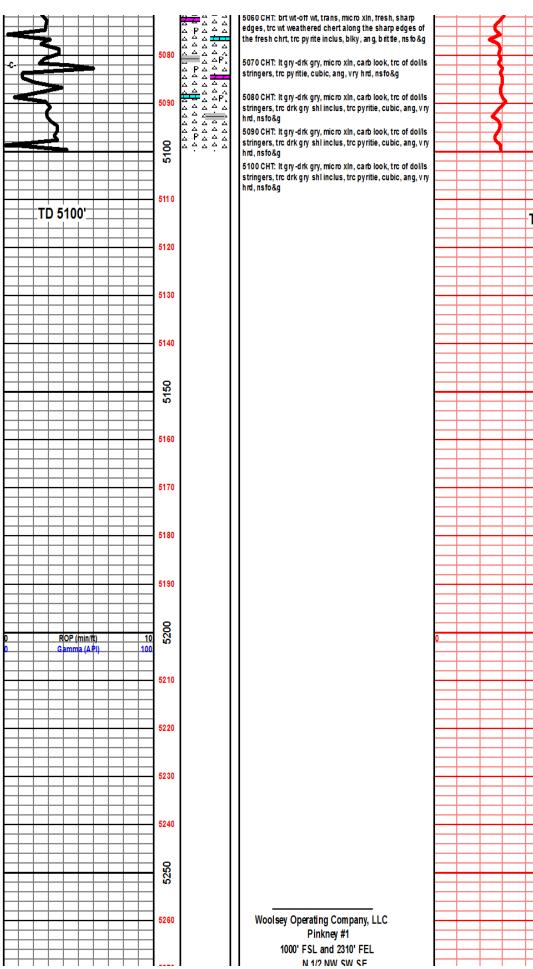












vis. 52, wt 9.4, lcm 4# TD 5100'

| 5280<br>5290 | Sec 34 - Twp 27 S - Rge 20W Kiowa County, Kansas Fralick West Field A PI # 15 097 21830 GL 2285' KB 2297' |  |  |
|--------------|---|--|--|
| 8            |   |  |  |