

Confidentiality Requested:

Yes  No

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

Form ACO-1

January 2018

**Form must be Typed**

**Form must be Signed**

**All blanks must be Filled**

**WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE**

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

New Well  Re-Entry  Workover

Oil  WSW  SWD

Gas  DH  EOR

OG  GSW

CM (Coal Bed Methane)

Cathodic  Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

Deepening  Re-perf.  Conv. to EOR  Conv. to SWD

Plug Back  Liner  Conv. to GSW  Conv. to Producer

Commingled Permit #: \_\_\_\_\_

Dual Completion Permit #: \_\_\_\_\_

SWD Permit #: \_\_\_\_\_

EOR Permit #: \_\_\_\_\_

GSW Permit #: \_\_\_\_\_

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE  NW  SE  SW

GPS Location: Lat: \_\_\_\_\_, Long: \_\_\_\_\_  
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum:  NAD27  NAD83  WGS84

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Vertical Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

**Drilling Fluid Management Plan**

(Data must be collected from the Reserve Pit)

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite:

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

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  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. 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 <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No  List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, 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 / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

1. Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?  Yes  No *(If No, fill out Page Three of the ACO-1)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5) (Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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**MUD LOG**  
**WellSight Systems**  
Scale 1:240 (5"=100') Imperial  
Measured Depth Log

Well Name: Arikaree Breaks #1  
API: 15-023-21557  
Location: SE NE NE SE Sec 31-T1S-R40W Cheyenne Co., KS  
License Number: 30742  
Spud Date: 9/22/2021  
Surface Coordinates: NAD27 Long: -101.8430884  
NAD27 Lat: 39.9223211  
Region: DJ Basin/NW KS  
Drilling Completed: 9/30/2021  
Bottom Hole Coordinates:  
Ground Elevation (ft): 3311 K.B. Elevation (ft): 3316  
Logged Interval (ft): 4000 To: 5160 Total Depth (ft): 5150  
Formation: Mississippian  
Type of Drilling Fluid: Chemical Mud

Printed by MudLog from WellSight Systems 1-800-447-1534 [www.WellSight.com](http://www.WellSight.com)

**OPERATOR**

Company: Palomino Petroleum, Inc.  
Address: 4924 SE 84th ST  
Newton, KS 67114

**GEOLOGIST**

Name: Ryan Davis  
Company: Red Oak Energy, Inc.  
Address: 7701 E. Kellogg, Ste 710  
Wichita, KS 67207

**Cores**

No Cores

## DSTs

### DST #1

4178-4269

30-30-30-30

IF: 1/4" blow @ open, dead @ 16 min

ISl: No blow

FF: No blow

FSl: No blow

IFFPs: 16-19#

FFPs: 18-21#

SIPs: 138-147#

Rec: 5' Mud w oil spots in tool

### DST#2

4293-4431

30-30-30-30

IF: 1/4" blow @ open, dead @ 27 min

ISl: No blow

FF: No blow

FSl: No blow

IFFPs: 18-20#

FFPs: 24-25#

SIPs: 542-416#

Rec: 20' OM (56% m 44% o)

### DST#3

4549-4922

30-30-35-30

IF: 1 1/2" blow at open, built to 2 1/4"

ISl: No blow

FF: Blow built to 1/4"

FSl: No blow

IFFPs: 32-54#

FFPs: 60-81#

SIPs: 977-896#

Rec: 115' M

## Comments

The Arikaree Breaks #1 was thoroughly examined through sample, DST and log analysis. It was determined that well was not commercially viable and was to be plugged and abandoned.

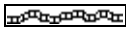
Respectfully submitted,

Ryan Davis

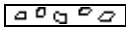
## ROCK TYPES



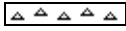
Anhy



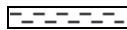
Bent



Brec



Cht



Clyst



Coal



Congl



Dol



Gyp



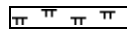
Igne



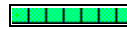
Lmst



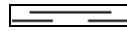
Meta



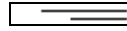
Mrlst



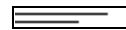
Salt



Shale



Shcol



Shgy



Sltst



Ss



Till

### ACCESSORIES

#### MINERAL

- Anhy
- Arggrn
- Arg
- Bent
- Bit
- Breclfrag
- Calc
- Carb
- Chtdk
- Chtlt
- Dol
- Feldspar
- Ferrpel
- Ferr
- Glau

- Gyp
- Hvymin
- Kaol
- Marl
- Minxl
- Nodule
- Phos
- Pyr
- Salt
- Sandy
- Sil
- Sulphur
- Tuff

#### FOSSIL

- Algae
- Amph
- Belm
- Bioclst
- Brach
- Bryozoa
- Cephal
- Coral
- Crin
- Echin
- Fish
- Foram
- Fossil
- Gastro
- Oolite

- Ostra
- Pelec
- Pellet
- Pisolite
- Plant
- Strom

#### STRINGER

- Anhy
- Arg
- Bent
- Coal
- Dol
- Gyp
- Ls
- Mrst

- Sltstrg
- Ssstrg

#### TEXTURE

- Boundst
- Chalky
- Cryxln
- Earthy
- Finexln
- Grainst
- Lithogr
- Microxln
- Mudst
- Packst
- Wackest

### OTHER SYMBOLS

#### POROSITY

- Earthy
- Fenest
- Fracture
- Inter
- Moldic
- Organic
- Pinpoint

- Vuggy

#### SORTING

- Well
- Moderate
- Poor

#### ROUNDING

- Rounded
- Subrnd
- Subang
- Angular

- Spotted
- Ques
- Dead

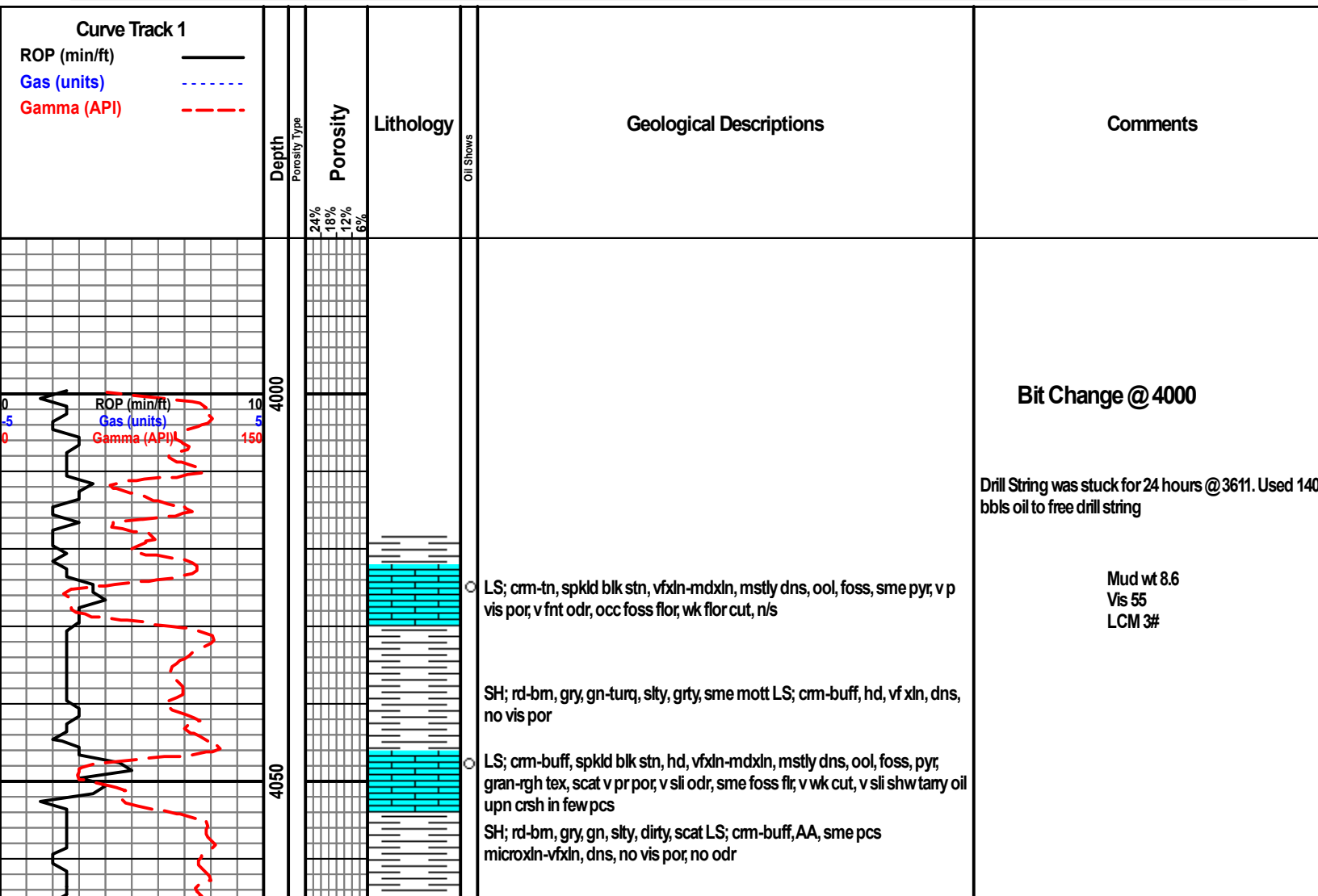
#### EVENT

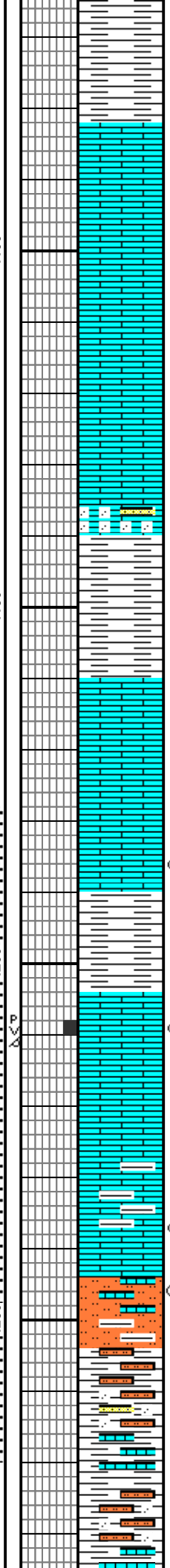
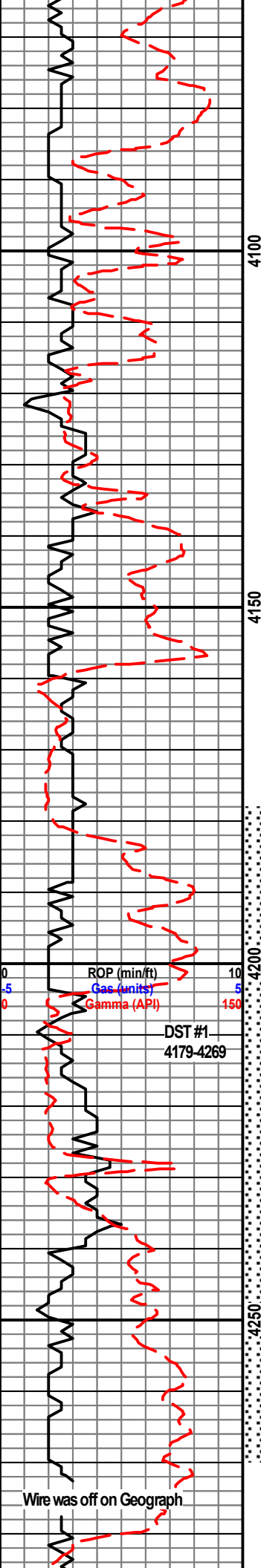
- Rft
- Sidewall

#### INTERVAL

- Core
- Dst

- OIL SHOW
- Even





SH; bmsh rd, slty, turq-gm, gry

SH; bmsh rd, slty, sfter, gry mott gn

LS; cm-buff, hd, microxln, mstly dns, sme mealy gran tex, chk, v p vis por; abd SH; bmsh rd, slty

LS; cm, buff, gry, spkld blk strn, hd, crpxln-fxln, dns, sme chk, no vis por, no odr, sme foss flor, n/s

LS; cm mott mar, yel-gn, sli slty, crpxln-microxln, dns, SH; rd-mar, sft-hd

LS; cm, hd, microxln, dns, ool, ti, no vis por; no odr

LS; cm, tn, pkish, hd, microxln-vfxln, dns, mealy-mstly sm tex, sme ool, ti, no vis por; no odr

LS; cm-tn mott gry-gn, hd, microxln-fxln, mstly dns, foss, sme v sli vggv por, few pcs SS, qrtz, clr-gn, vf gm clus, v ti, no odr

SH; rd-bm, slty, grty, mott LS; cm, microxln-vfxln, sli suc, gran-rgh tex, v p vis por; no odr

LS; tn-lt gry, hd, crpxln-microxln, dns, intraclas, sli foss, no vis por, no odr, scat SH; bmsh rd, slty, grty

LS; tn-lt gry, hd, crpxln, micrite, dns, no vis intxln por, no odr

LS; tn-lt gry, AA, occ sli wthd pcs, foss, sli bm-blk strn, no odr, no flor, no cut, n/s

LS; cm-buff, hd, vfxln-fxln, mstly dns, foss, v p vis por, scat v tarry oil mstly dead, no odr, no flor, fr lt bm cut, NSFO

SH; brick rd, turq-gn, gry, slty, grty

LS; cm, vfxln-fxln, ool, p-fr intxln pp por, scat vggv & castic por, sli odr, abd blk-drk oil spks on mst pcs, gd flor, FSFO upn crsh, slow bleeding, fr amt free bm oil drops in spl, gd cut

LS; tn-gry, hd, crpxln, dns, no vis por, no odr

LS; cm, tn, gry, crpxln-micrxln, mstly dns, chky, no odr, scat SH; brt rd-brick rd, gry, turq-lt gn, grty-fiss

LS; cm-tn, hd, microxln-vfxln, mstly dns, sli ool, sli foss, occ pp & p vggv por, v fnt odr, VSSFO, SH; rd-bm, blk-gry, gn

SLTST; lmy, gry-tn, scat blk spks, occ pyr, abd LS; tn-cm, hd, microxln-fxln, sme foss & ool, occ p vis por, v scat tarry oil on occ pcs, no odr, SH; rd-bm, gry-blk, gn

30 min - SH; rd-bm, gn, gry-blk, SLTST, AA, occ SS; qrtz, blk flky spks, vf gr clus, fri, wsrt, wmd, v p intgm por

60 min - SH; rd-bm, gm, gry, scat LS, cm-tn, hd, crpxln-microxln, dns, no vis por

SH; brick rd, grty, slty-lmy, blk, carb, gry, gn, slty-sndy

— Topeka 4083 (-767)

Mud wt 9.0 Vis  
56  
LCM 3#

Mud wt 9.1  
Vis 59  
LCM3#

Mud wt 9.0  
Vis 55  
LCM 2#

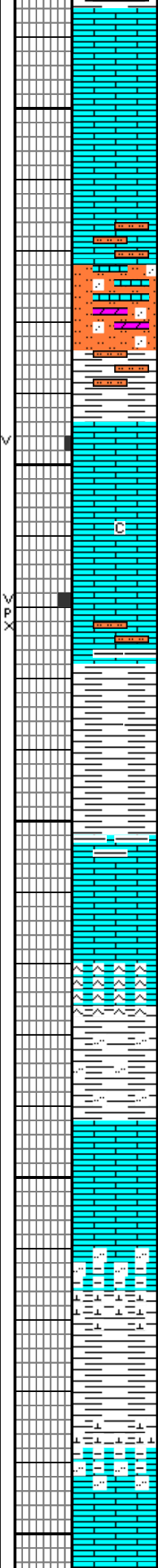
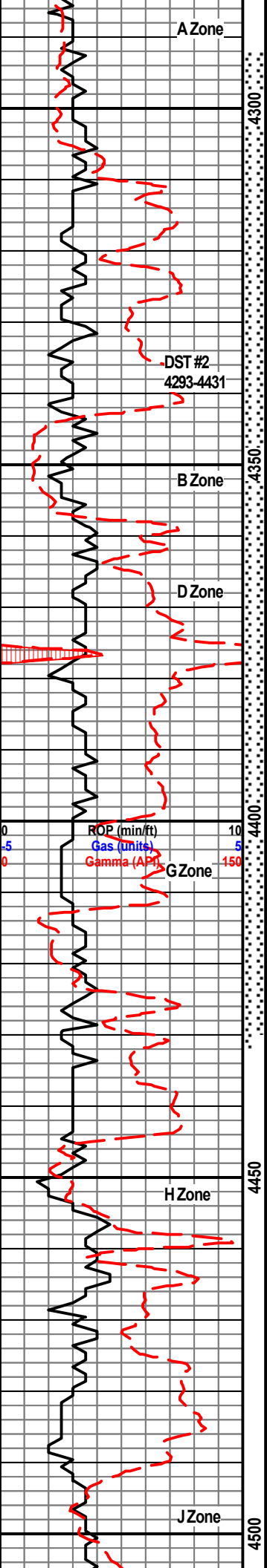
— Oread 4204 (-888)

Mud wt 9.0  
Vis 53  
LCM 2#

DST #1  
4178-4269  
30-30-30-30  
IF: 1/4" blow @ open, dead @ 16 min  
ISI: No blow  
FF: No blow  
FSI: No blow  
IFPs: 16-19#  
FFPs: 18-21#  
SIPs: 138-147#  
Rec: 5" Mud w oil spots in tool  
CFS 30/60

Wire was off on Geograph  
Mud wt 9.1  
Vis 120+  
LCM 4#

Wire was off on Geograph



LS; lt buff, lt gry, pkish, v hd, crpxln, v dns, sm, no vis por

LS; lt tn-lt gry, pkish, v hd, crpxln, v dns, sm, no vis por

LS; lt tn-lt gry, smwt purp-pkish, hd, crpxln-microxn, mstly dns, sli chk, sm-sft, no vis por

LS; lt gry, tn, purp mott rd, stly, microxn-fxln, mstly dns, v p vis por, no odr

SLTST, smwt sndy, clr, blk flks (gilson), tn, bm, gn, ti, LS; stly, sli dolc, cm, buff, lt gn, vf-mdxn, smwt ti, p intxn por, no odr, n/s

SH; brick rd-bm, gry, gn, grty, stly

LS; cm-buff, smwt hd, crpxln-vfxln, smwt ool, sm-sli gran, mstly ti, occ vgyg & intxn por, scat bm-blk stn, fr odr, v scat edg flr, SSFO upn crsh, SSFO in tray.

LS, cm-wh, gry, hd, crpxln-microxn, dns, sme chk, no vis por, no odr

LS; cm-buff, mstly hd, microxn-vxln, ool, foss, p-fr pp por, scat blk dd oil stn, sme bm sat stn, sli odr, scat flr on edgs, SSFO upn crsh,

LS; tn mott bm-blk, hd, microxn-fxln, dns-sli stly, foss, vp-no vis por, SH; gry-rd, sft, fiss

SH; brick rd-bm, gry-blk, gn, sft, fiss

20 min - SH; brick rd, sft

40 min - SH; AA

LS; tn-buff, micro-vfxln, mstly dns, ool, scat p vgyg por, occ chk, no odr, no stn, no flr, n/s

LS; cm-lt gry, v hd, crpxln, v dns, no vis por, no odr

30 min - LS; buff-gry, hd, microxn, stly, v p vis por, no odr

60 min - LS; AA, SH; brick rd, gry, gn

SH; brick rd, blk-gry, gn, sft-fiss, sli stly

LS; cm, wh, buff, smwt hd, microxn-fxln, sm-spry, ool, chky, ti, v occ scat vgyg por, no stn, no odr, n/s

LS; buff-tn, smwt hd, microxn-fxln, sm-sli spry, ool, foss, ti, v occ vgyg por, no stn, no odr, n/s

LS; buff-tn, smwt hd, microxn-vfxln, foss, ool, wkst-pkst, sme stly mtrx, no stn, no odr, scat SH; brick rd, stly, grty

SH; brick rd, sft-fiss

SH; brick rd, gry-blk, gn, LS; buff-gry, hd, crpxln-vfxln, smwt sm-rgh gran tex, foss, ool, pkst-granst, occ sli suc, v ti, v p por-no vis por, no stn, no odr, n/s

LS; gry, v hd, crpxln-microxn, v dns, sm, no vis por, no stn, no odr

LS; gry dolc, hd, brt, crpxln-vfxln, mstly dns, sm, smwt rgh gran tex, occ

— Lansing 4279 (-963)

Mud wt 9.0  
Vis 86  
LCM 3#

Vis 70  
LCM 3#  
CFS 20/40

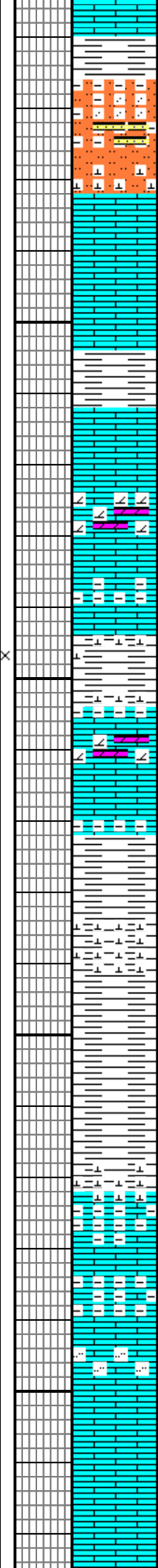
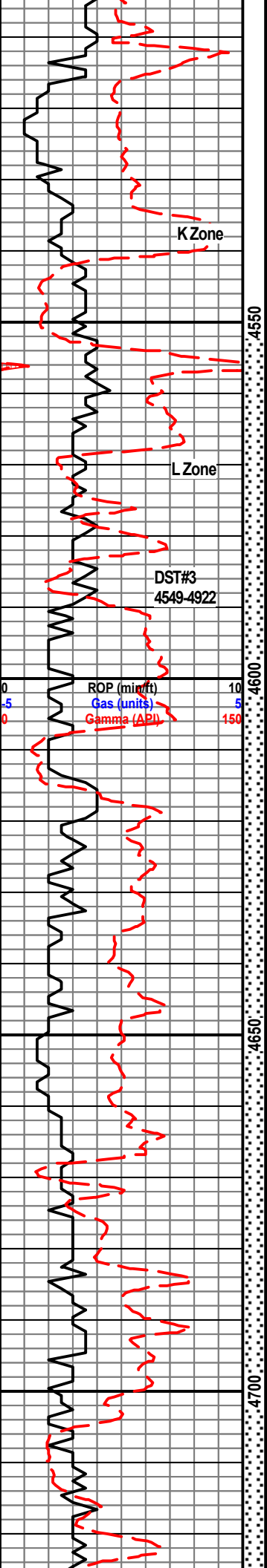
DST#2  
4293-4431  
30-30-30-30  
IF: 1/4" blow @ open, dead @ 27 min  
IS: No blow  
FF: No blow  
FS: No blow  
IFPs: 18-20#  
FFPs: 24-25#  
SIPs: 542-416#  
Rec: 20' OM (56% m 44% o)

CFS 20/40

CFS 30/60

— Muncie Creek 4435 (-1119)





LS; gry, dolc, hd-brit, cpxln-vfxln, mstly dns, sm-smwt rgh gran tex, occ sli slty, no vis por, no stn, no odr

LS; gry-buff, AA, SH; brick rd-gry, grty, slty, SLTST, gry

SLTST; ark, brick rd, arg, fiss

SLT; ark-qrtz, brick rd-pkish, clr, LS; buff, cm, gry, hd, microxln-vfxln, dns, foss, smwt sm-rgh gran tex, ti, no vis por, no stn, no odr, SS; qrtz, clr, blk stn, hd, vf gm clus, ti, calc cmt mtrx, sbang-sbmd, wsrt, v p intgran por, no odr

LS; buff-cm, v hd, cpxln-microxln, v dns, mstly sm, no vis por, no stn, no odr

LS; sli dolc, gry-buff, brit-hd, microxln-vfxln, mstly dns, foss, sme chk, sm-rgh gran tex, no vis por, no stn, no odr

LS; buff-cm, v hd, cpxln-microxln, dns, mstly sm, no vis por, no stn, no odr

LS; buff-cm, AA, DOL; cm, hd, fxl-vfxln, ti, suc, v p intxn por, no stn, no odr

LS; buff-cm, hd, microxln-vfxln, mstly dns, sme chk, no vis por, no odr, SH; rd-mar, gry, gn, sft, fiss

LS; cm, buff, gry, brit, microxln-vfxln, sme foss, scat chk, sli sm-rgh gran tex, v p vis por, no stn, no odr

LS; buff-gry, hd, microxln-vfxln, sme, foss, sm-rgh gran tex, no vis por, no stn, SH; rd-bm, blk-gry, fiss, DOL; cm-buff, smwt hd, vf-f xln, suc, v p intxn por, no stn

LS; buff, cm, gry, brit-hd, microxln-vfxln, mstly dns, chk, sm-sli gran tex, no vis por, SH; rd-mar, blk-gry, fiss

SH; brick rd-mar, gry-blk, carb, gn, LS; AA, abd chk

SH; brick rd, grty, slty, blk, carb, gry, fiss, turq gn, abd chk

SH; brick rd, grty, slty, LS; buff-tn, mstly hd, microxln-vfxln, smwt mealy tex, no stn

SH; brick rd, grty, slty, blk, carb, gry, fiss, turq gn

SH; brick rd, arg-slty, blk, elng, carb, gry, gn, sft

LS; tn-buff, hd, cpxln-vfxln, mstly dns, occ ool, sli chky, sm-gran tex, no vis por, no stn, no odr, SH; brick rd-gry, arg-slty, grty

LS; tn, gry, cm, hd-brit, microxln-vfxln, mstly dns, sm-mealy gran tex, no vis por, no stn, scat SH; brick rd, arg-slty, grty, blk, carb, gry, turq-gn.

LS; tn, gry, bm, hd, microxln-vfxln, dns, sm-smwt rgh spry tex, sli foss, scat chk, smwt slty, no vis por, no stn, no odr

LS; buff-bm, hd-brit, microxln-vfxln, mstly dns-v p vis por, sm-mealy gran tex, foss, sli chky, no stn, no odr

LS; it buff-lt gry, brit, vfxln, mealy gran tex, sli foss, sli chky, v p intxn por, no stn, no odr

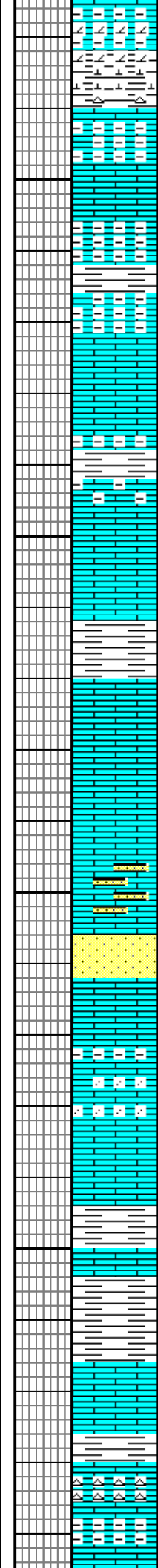
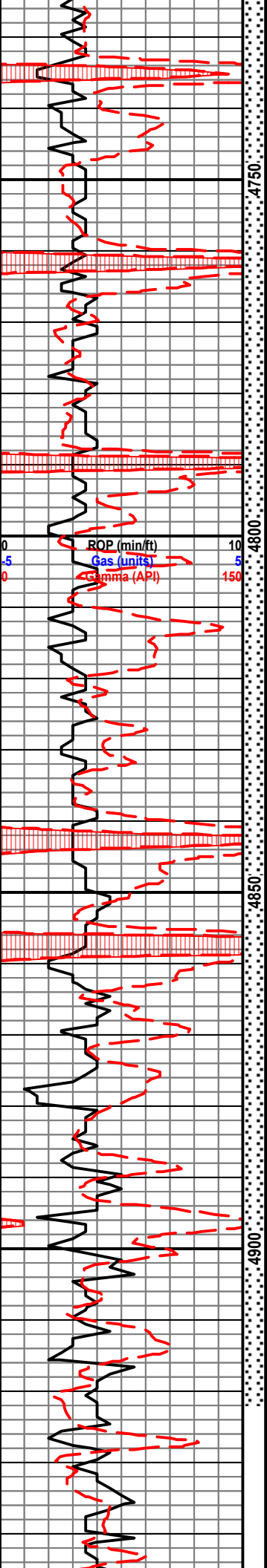
LS; buff, tn, bm, blk-brit, mstly hd, microxln-fxln, mstly dns, sm-mealy,

— Stark 4513 (-1197)

DST#3  
4549-4922  
30-30-35-30  
IF: 1 1/2" blow at open, built to 2 1/4"  
IS: No blow  
FF: Blow built to 1/4"  
FSI: No blow  
FFPs: 32-54#  
FFPs: 60-81#  
SIPs: 977-896#  
Rec: 115' M

— B/Kansas City 4592 (-1276)

— Pawnee 4704 (-1388)



chky, no vis por, no stn, no odr

SH; blk, lmy-carb, hd-fiss, gry, fiss-sft, LS; buff-tn, hd, microxln-vfxln, mealy, sli dolc, no vis por, no stn, occ CHT, wh-tnsl, hd, frsh, shrp, dns

LS; lt gry-drk gry, buff, hd, microxln-vfxln, dns, sli rgh tex, ooc mott dolc xln, sme ool, p-fr intool por, no stn, no odr

LS; gry-buff, hd-brit, microxln, smwt sm-mealy tex, sli sity, mstly dns, v p intxln por, no stn, no odr, SH; blk, blk, carb

LS; buff-tn, cm, hd, microxln, pkst-grst, ool smwt dns, wl cmtd, no vis por, no stn, no odr, v scat SH; blk, carb, rd, gry, gn

LS; AA, scat chk

LS; buff-bm, hd-brit, crpxln-microxln, sm-spry, dns, no vis por, no stn, no odr, SH; blk, carb

LS; buff, tn, bm, gry, microxln-vfxln, spry-smwt gran, chky, mstly dns, no vis por, no stn, no odr

LS; buff, cm, bm, hd, crpxln-microxln, v sli foss, sme wkst-pkst, chky, pyr, sm-sli rgh, dns, no vis por, no stn, no odr

LS; buff-cm, mstly brit, microxln-fxln, suc, sme ool, p intgran por, no stn, no odr

LS; buff, brit-hd, vfxln-crpxln, spry-micrite, chk, dns, no vis por, no stn, no odr

SS, glauc, qrtz, v hd, vf gr, ti clus, w md, w srt, no vis por, no stn no odr, LS; AA

SS, qrtz, sft, vf-f gr clus, slty-chky mtrx, sme w cmtd, sb ang-sb md, smwt wsrtd, no vis por, no flor, no stn, ns,

LS; buff, tn, gry, brit-hd, f xln-vf xln, spry-suc, sme ool, p-fr int-ool por, no stn, sli flor on eds, no cut, no odr

LS; cm-buff, hd, fxln-microxln, suc-micrite, scat p vgy por, no stn, SH; grys, rd, blk, gn, scat SS, qrtz, smwt frt, vf-f gr clus, md, w srt, no stn, no flor, no odr

LS, buff-cm; scat gn spks, brit-hd, fxln-microxln, suc-gran, sli chky, no vis por, no stn, no odr

LS; buff, tn-bm, purp, v hd, fxln-microxln, spry-wkst, occ ool pcs, no stn, v scat SH, gry-blk, rd, purp, gn

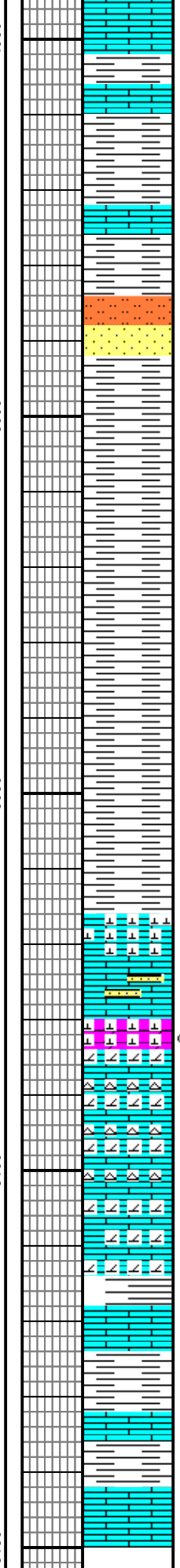
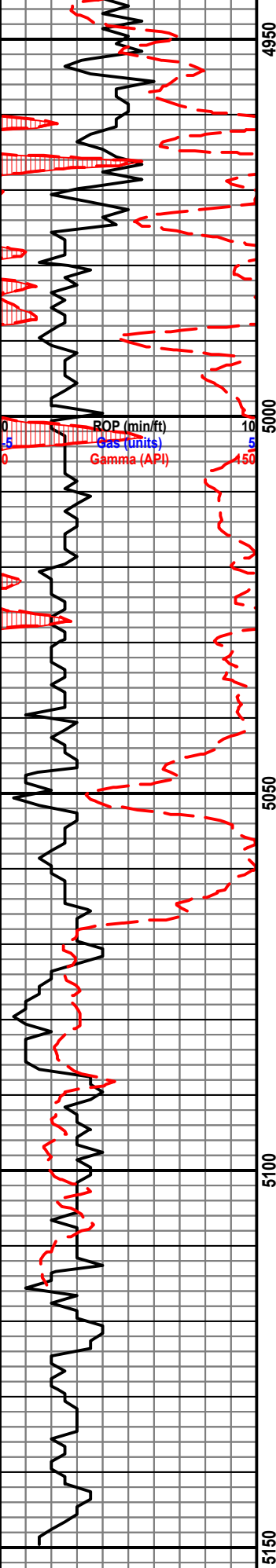
SH; purp-rd, gry-blk, gn, sft-fiss, sli slty

LS; gry, purp, cm, tn, hd, fxln-microxln, spry-micrite, sli suc IP, no vis por, SH; rd, purp, gry, gn

LS; cm-wh, hd, crpxln-microxln, mstly sm, occ ool pcs, buff, hd, rgh gran tex, p-fr intgr por, no stn, sli evn flor, no cut, abd CHT; yel-or, frsh, vit, scat SH; rd-purp, gry-blk

LS; cm, buff, bm, purp, hd, crpxln-vfxln, sm, sme spry, chk, occ rgh gran tex, no vis por, SH; gry, rd, blk, gm, purp

— Cherokee Sh 4788 (-1472)



SH; rd, gry, gn, blk, purp

LS; cm, buff, blk, purp, v hd, crpxln-vf xln, mstly sm-sli spry, no vis por, SH; AA

SH; rd, bm, gry, blk, gr, purp

LS; buff, bm, gn, gry, v hd, crpxln-microxln, sli foss, dns, no vis por, SH; gry, gn, rd, slty

SS; qrtz, cl, hd, vf-f gr, ti clus, sb ang-sb md, w srt, v p intgr por, no stn, no odr, fnt flor on edgs, no cut, n/s

SH; blk, carb, gry, gn, slty, bm, rd, scat SS, qrtz, AA

5020- SH; lt-drk gry, gr, rd, bm, blk

SH; rd-bm, grys, blk, gn

SH; rd-bm, blk-grys, gn

SH; rd-bm, grys, blk, gn, slty-sndy, glac, ti

SH; grys, blk, carb, rd-bm, gr

SH; grys, blk, carb, rd-bm, gn

SH; blk, carb, grys, rd, gn, SS, qrtz, hd, f-md gr sm clus, ang-sb ang, smwt w srt, ti, v p intgr por, no stn, no cut, no odr, n/s

LS; bm-tn, brit, slty-sndy, mealy-rgh tex, no vis por, no stn, no flor, no odr, scat SH; blk, gry, rd

DOL; lt bm, wht-cm, brit, vf-occ fxln, sbsuc-suc tex, slty, mstly p intxln por, sme calc, scat flor, v scat stn, v sli cut on 1 calc pc, v fnt odr, n/s

LS; dolc, bm-tn, hd-brit, microxln-vfxln, spry-suc, rgh tex, no vis por, no stn, scat SH; gry, blk, rd, gn, occ qrtz xls, cl-pnk, sme CHT, wht-opq, shrp, vit, no odr

LS; sli dolc IP, bm-tn, mstly hd, microxln-vfxln, foss, spry-rgh gm tex, no vis por, scat SH, gry-blk, rd-gn, occ qrtz xls, sme gilsonite, no cut, cl-pnk, no odr

SH; gry, rd, blk, gn, LS; buff-gry, brit-hd, vfxln-microxln, smwt sm, spry, no vis por, no stn

LS; sli dolc, cm, buff-bm, hd, vf-fxln, spry-pkst, rgh gran tex, no stn, scat slty bm Ls pcs, no odr

SH; blk mott gn, rd, gy, splin, fiss, scat LS; AA

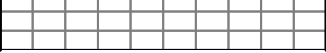
SH; AA, occ CHT, wht-opq, shrp, vit

SH; gr, blk, rd, gry, fiss, LS, tn, brit, vfxln, slty-wkst tex, v p vis por, no stn, no odr

LS; tn-buff, hd, microxln-fxln, spry-pkst, sli suc, sme ool, v p vis por, no stn, no odr

— Morrow Sh 4966 (-1650)

— Mississippian 5067 (-1751)





**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Palomino Petroleum Inc  
 4924 SE 84th St  
 Newton, KS 67114  
 ATTN: Ryan Davis

**31/1s/40w Cheyenne KS**

**Arikaree Breaks #1**

Job Ticket: 66712

**DST#: 3**

Test Start: 2021.10.01 @ 02:35:00

## GENERAL INFORMATION:

Formation: **Cherokee**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 05:11:36  
 Time Test Ended: 09:57:21

Test Type: Conventional Straddle (Reset)  
 Tester: James Winder  
 Unit No: 73

Interval: **4529.00 ft (KB) To 4922.00 ft (KB) (TVD)**  
 Total Depth: 5151.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 3316.00 ft (KB)  
 3311.00 ft (CF)  
 KB to GR/CF: 5.00 ft

## Serial #: 6771

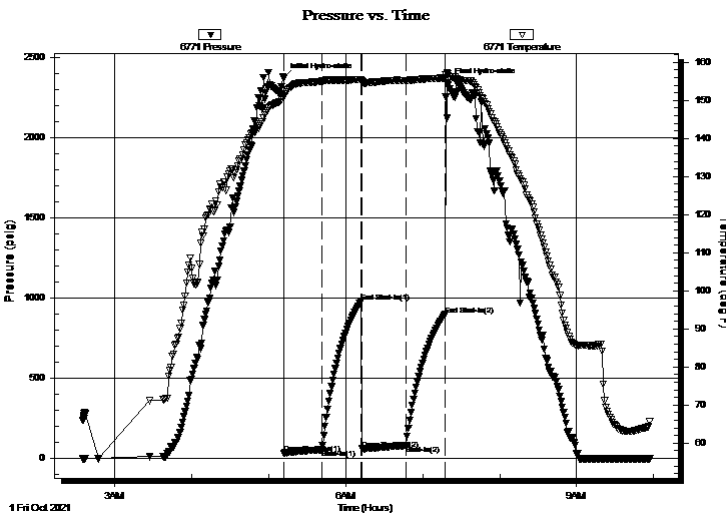
Inside

Press@RunDepth: 81.67 psig @ 4550.00 ft (KB)  
 Start Date: 2021.10.01 End Date: 2021.10.01  
 Start Time: 02:35:01 End Time: 09:57:21

Capacity: 8000.00 psig  
 Last Calib.: 2021.10.01  
 Time On Btm: 2021.10.01 @ 05:11:21  
 Time Off Btm: 2021.10.01 @ 07:19:21

TEST COMMENT: 30 - IF: 1 1/2" Blow at open, built to 2 1/4"  
 30 - IS: No blow back  
 35 - FF: Blow built to 1/4"  
 30 - FS: No blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2369.24	151.11	Initial Hydro-static
1	32.71	150.87	Open To Flow (1)
30	54.78	155.07	Shut-In(1)
61	977.04	155.48	End Shut-In(1)
62	60.82	155.15	Open To Flow (2)
96	81.67	155.21	Shut-In(2)
126	896.43	155.90	End Shut-In(2)
128	2343.03	156.91	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
115.00	Mud 100%	0.57

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Palomino Petroleum Inc  
4924 SE 84th St  
New ton, KS 67114  
ATTN: Ryan Davis

**31/1s/40w Cheyenne KS**

**Arikaree Breaks #1**

Job Ticket: 66712

**DST#: 3**

Test Start: 2021.10.01 @ 02:35:00

## GENERAL INFORMATION:

Formation: **Cherokee**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 05:11:36  
 Time Test Ended: 09:57:21  
 Interval: **4529.00 ft (KB) To 4922.00 ft (KB) (TVD)**  
 Total Depth: 5151.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Straddle (Reset)  
 Tester: James Winder  
 Unit No: 73  
 Reference Elevations: 3316.00 ft (KB)  
 3311.00 ft (CF)  
 KB to GR/CF: 5.00 ft

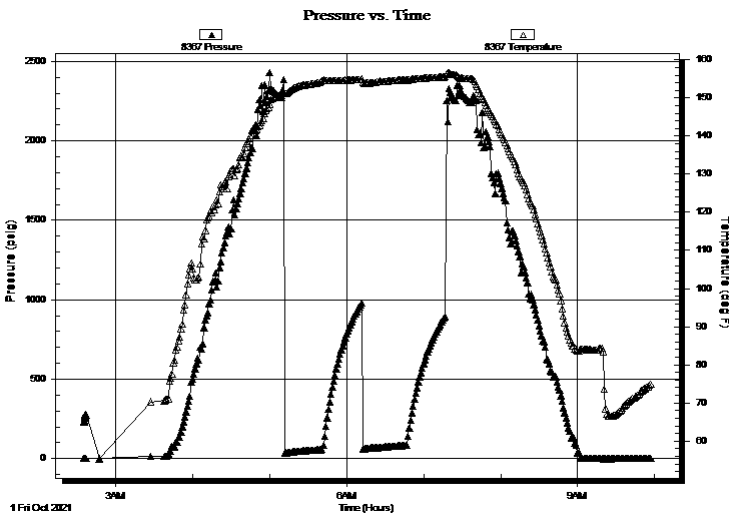
**Serial #: 8367**

**Outside**

Press@RunDepth: psig @ 4550.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2021.10.01 End Date: 2021.10.01 Last Calib.: 2021.10.01  
 Start Time: 02:35:01 End Time: 09:56:51 Time On Btm:  
 Time Off Btm:

**TEST COMMENT:** 30 - IF: 1 1/2" Blow at open, built to 2 1/4"  
 30 - IS: No blow back  
 35 - FF: Blow built to 1/4"  
 30 - FS: No blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

## Recovery

Length (ft)	Description	Volume (bbl)
115.00	Mud 100%	0.57

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Palomino Petroleum Inc

**31/1s/40w Cheyenne KS**

4924 SE 84th St  
New ton, KS 67114

**Arikaree Breaks #1**

Job Ticket: 66712

**DST#: 3**

ATTN: Ryan Davis

Test Start: 2021.10.01 @ 02:35:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 59.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
115.00	Mud 100%	0.566

Total Length: 115.00 ft      Total Volume: 0.566 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



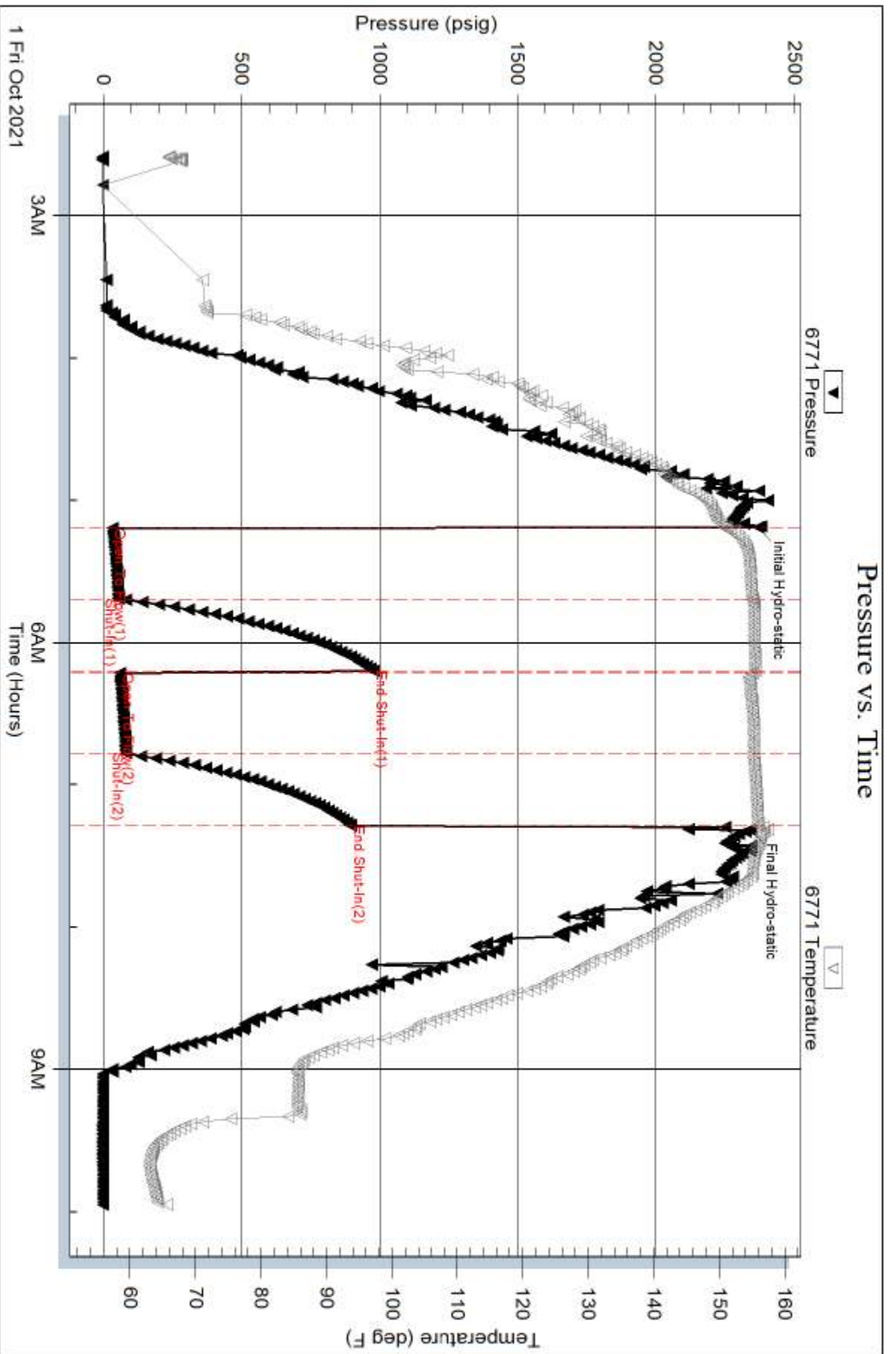
Serial #: 6771

Inside

Palomino Petroleum Inc

Arikaree Breaks #1

DST Test Number: 3

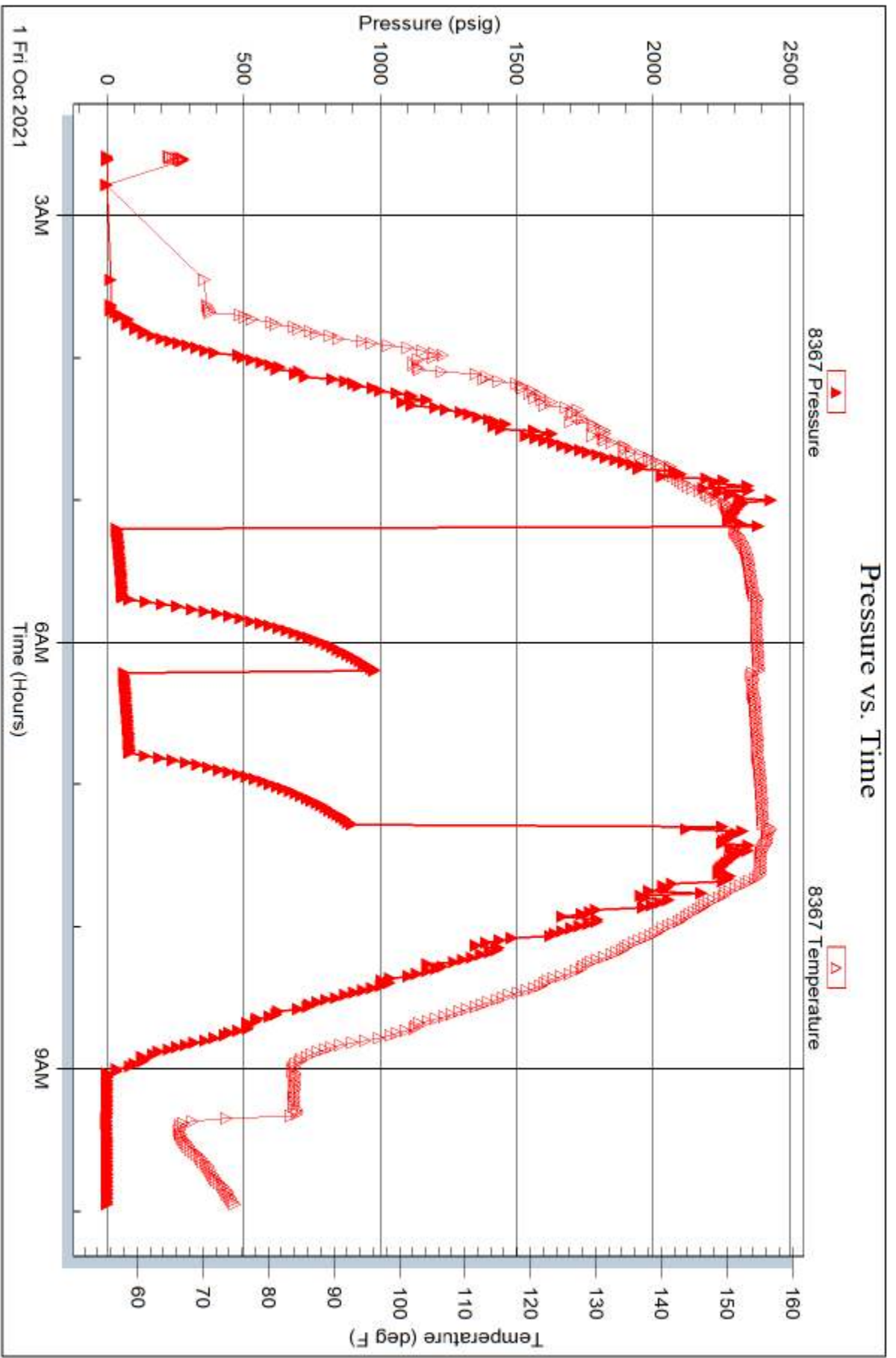


Serial #: 8367

Outside Palomino Petroleum Inc

Artikaree Breaks #1

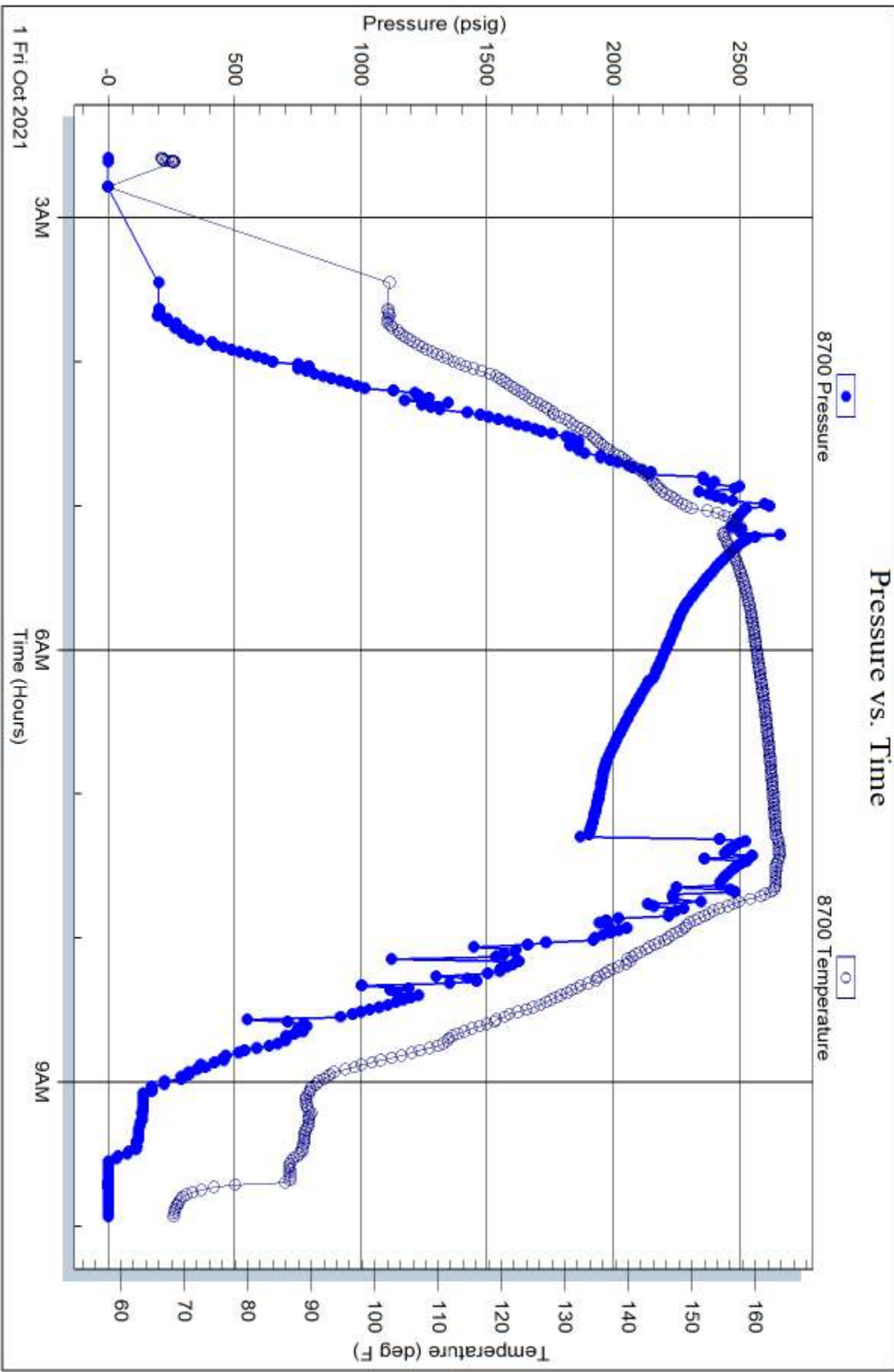
DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 66712

Printed: 2021.10.01 @ 10:39:15





**HURRICANE SERVICES INC**

Remit To: Hurricane Services, Inc.  
250 N. Water, Suite 200  
Wichita, KS 67202  
316-303-9515

**RECEIVED**  
OCT 04 2021  
BY: \_\_\_\_\_

Customer:  
PALOMINO PETROLEUM INC  
4924 SE 84TH ST  
NEWTON, KS 67114-8827

Invoice Date: 9/22/2021  
Invoice #: 0355741  
Lease Name: Arikaree Breaks  
Well #: 1 (New)  
County: Cheyenne, Ks  
Job Number: WP1901  
District: Oakley

Date/Description	HRS/QTY	Rate	Total
Surface	0.000	0.000	0.00
Depth Charge 0'-500'	1.000	900.000	900.00
Heavy Eq Mileage	100.000	3.600	360.00
Light Eq Mileage	100.000	1.800	180.00
Ton Mileage	1,035.000	1.350	1,397.25
H-325	220.000	18.000	3,960.00

*Cement for surface for #1*  
*9/30*

**Total** 6,797.25 ✓

**TERMS:** Net 30 days. Interest may be charged on past due invoice at rate of 1 ½% per month or maximum allowed by applicable state or federal laws. HSI has right to revoke any discounts applied in arriving at net invoice price if invoice is past due. If revoked, full invoice price without discount plus additional sales tax, as applicable, is due immediately and subject to interest charges. Customer agrees to pay all collection costs directly or indirectly incurred by HSI in the event HSI engages a third party to pursue collection of past due invoice.

**SALES TAX:** Services performed on oil, gas and water wells in Kansas are subject to sales tax, with certain exceptions. HSI relies on the well information provided by the customer in identifying whether the services performed on wells qualify for exemption.

**WE APPRECIATE YOUR BUSINESS!**



