

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 Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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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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Form	ACO1 - Well Completion
Operator	Carmen Schmitt, Inc.
Well Name	WETZEL 1
Doc ID	1378159

All Electric Logs Run

Sonic
Dual Induction
Dual Comp Porosity
Micro

Form	ACO1 - Well Completion
Operator	Carmen Schmitt, Inc.
Well Name	WETZEL 1
Doc ID	1378159

Tops

Name	Top	Datum
Anhydrite	1286	963
Topeka Lm	3680	-1431
Heebner Sh	3996	-1747
L/KC	4115	-1866
B KC	4450	-2201
Marmaton	4452	-2203
Pawnee	4566	-2377
Ft. Scott	4626	-2377
Cherokee	4648	-2399
Miss	4730	-2481



M. Bradford Rine

Consulting Geologist

Licensed/Certified: Kansas, Wyoming, AAPG/DPA, SIPES

Phone: (316) 250-5941

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

Well Name: Wetzel #1 - Carmen Schmitt, Inc.
API: 15-047-21657-00-00
Location: NW-SE-NE-NW, Section 17-26S-20W
License Number: KCC #6569
Spud Date: November 09, 2017
Surface Coordinates: 881' FNL & 2108' FWL,
of Section
Bottom Hole Vertical Wellbore
Coordinates:
Ground Elevation (ft): 2244 Ft. **K.B. Elevation (ft):** 2249 Ft.
Logged Interval (ft): 3450 Ft. **To:** 4764 Ft. **Total Depth (ft):** RTD 4764 Ft. LTD 4756 Ft.
Formation: Mississippian at Total Depth
Type of Drilling Fluid: Chemical

Region: Edwards County, Kansas
Drilling Completed: November 20, 2017
Results: Prod. Casing
Field: Wildcat

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

Operator

Company: Carmen Schmitt, Inc.
Address: PO Box 47
Great Bend, Kansas 67530-0047

Geologist

Name: M. Bradford Rine
Company: Consulting Geologist, Kansas Lic. #204, Wyo #189, AAPG Cert. #2647
Address: 100 South Main, Suite #415
Wichita, Kansas 67202

Remarks

Based on sample observations, drill stem test results, and electric log evaluation, it was the decision of the Operator, to set production casing on the "Wetzel #1", on November 20, 2017.

Respectfully submitted,
M. Bradford Rine, geologist

**Carmen Schmitt, Inc
Wetzel #1
Section 17-26S-20W, Edwards County, Kansas**



Drilling Information

**Rig: Murfin #16
Pump: Emsco D375 6x14
Drawworks: Cardwell Royale
Collars: 497' 6-1/4 x 2-1/4
Drillpipe: 4-1/2" 16.6# XH
Toolpusher: Andrew Dinkel**

**Mud: Mudco (Justin Whiting)
Gas Detector: None
Drill Stem Tests: Trilobite (Leal Cason)
Logs while Fishing: Perf-Tech (Various Operators)
Fishing Tools: Kansas Fishing Tools (Unmanned)
Logs: Pioneer (J. Henrickson)
Water: Ag Irrigation Well on Lease
Company Representatives:
Office: Carmen Schmitt
Field: Curtis Hitchmann**

Casing Record, Bit Record, Deviation Surveys

CASING:

Conductor: None

Surface: Ran 8 jts, 8-5/8" 23# new casing, set @ 349 ft. (Quality) Cement with 250 sx 80/20 3%CC, 2% gel. Cement did circulate. Plug down at 7:00 pm, on November 10, 2017. Drilled out at 3:00 am, on November 11, 2017.

Production: Ran 113 jts, 5-1/2" casing with 37.22' shoe joint with a float shoe on bottom, numerous centralizers and baskets. Tagged up 3 ft shallow from TD, circulated casing to TD, then picked up 1 foot off bottom and set in slips. (Swift) Cement 30 sx in RH and 20 sx in MH. Single Stage Job. Cement casing with 500 gal mud flush and 20 bbls KCL flush. Followed by 375 sx SMD cement @ 11.2 ppg, followed by 175 sx SMD @ 13.5 ppg with gas stop in mix. Displaced plug with 115.3 bbls, lift pressure was 1200#. Circulated 25 bbls to pit. Landed plug at 1800#, plug held. Rig released 7:15 PM on 11/20/17.

BITS:

No.	Size	Make	Model	Depth In	Depth Out	Hours
1	12-1/4	Reed	TC11rr	0	352	4.5
2	7-7/8	HTC	GX20C	352	4403	88.5
3	7-7/8	HTCrr	GX20C	4403	4764	25.0

DEVIATION SURVEYS:

Deviation:	Depth:	Deviation:	Depth:
0.25*	352'	0.75*	4746'
0.50*	3166'		

Daily Drilling Status

Date:	Operations/Depth/Comments
11-08-17	MIRT @ 0'
11-09-17	MIRT, RU, Spud @ 0'
11-10-17	Drilling @ 660'
11-11-17	Drilling @ 2350'
11-12-17	Drilling @ 3125'
11-13-17	Drilling @ 3870'
11-14-17	Fishing, Stuck @ 4303'
11-15-17	Stuck, Spotting Oil @ 4303'
11-16-17	Drilling @ 4430'
11-17-17	Circulating for Samples @ 4729'
11-18-17	Trip Out of Hole for DST #2 @ 4754'
11-19-17	On Bottom With DST 3 @ 4764'
11-20-17	Trip Out of Hole to Lay Down Pipe @ 4764' Run Casing and Cement, Job Complete 7:15 PM

	Results:	Oil Well		(Well A)	D&A	Well B)	D&A		
	Carmen Schmitt, Inc.			Virginia Oil		Herbert G Davis			
	Wetzel #1			Millheiser #1		Russell #1-18			
	881'FNL & 2108'FWL			330'FNL & 330'FEL		C-SW-NE			
	Sec. 17-26S-20W			Sec. 17-26S-20W		Sec. 18-26S-20W			
	2249 KB			2247 KB		2253 KB		Well A	Well B
Formations	Sample	E-Log	Datum	E-Log	Datum	E-Log	Datum	Comparison(s)	
Anhydrite	1288	1286	963	1282	965	1300	953	-2	10
B/Anhydrite	1307	1307	942	1300	947	1319	934	-5	8
Topeka	3682	3680	-1431	3685	-1438	3693	-1440	7	9
Heebner Sh.	3999	3996	-1747	3998	-1751	4012	-1759	4	12
Toronto	4025	4021	-1772	4024	-1777	4032	-1779	5	7
Brown Lime	4114	4108	-1859	4117	-1870	4126	-1873	11	14
Lansing	4120	4115	-1866	4125	-1878	4134	-1881	12	15
Muncie Creek Sh.	4276	4270	-2021	4282	-2035	4294	-2041	14	20
Stark Sh.	4387	4386	-2137	4390	-2143	4400	-2147	6	10
B/Kansas City	4454	4450	-2201	4470	-2223	4460	-2207	22	6
Marmaton	4458	4452	-2203	4475	-2228	4462	-2209	25	6
Pawnee	4568	4566	-2317	4580	-2333	4582	-2329	16	12
Ft. Scott	4628	4626	-2377	4640	-2393	4647	-2394	16	17
Cherokee Sh.	4652	4648	-2399	4658	-2411	4674	-2421	12	22
Mississippian	4733	4730	-2481	4752	-2505	4764	-2511	24	30
Total Depth	4764	4756	-2507	5338	-3091	4877	-2624	584	117

DST #1: 4667-4746 (Mississippi)

Times: 30-45-60-90

Initial Open: Stg, b.o.b. 16 min, no b.b.

Final Open: Stg, b.o.b. 20 sec, no b.b.

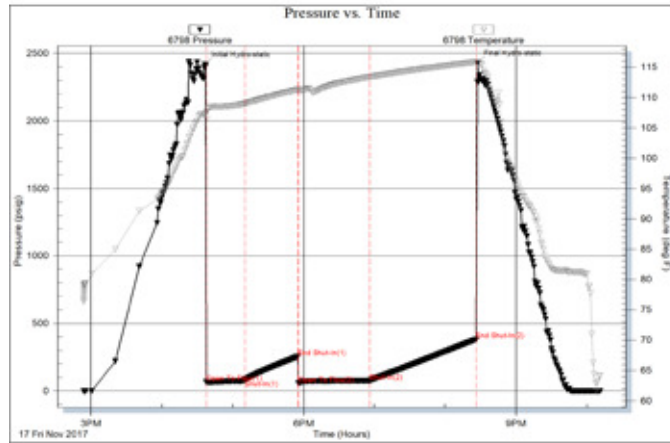
Rec: 2520' gas in pipe, 60' SGCM 2%gas

IHP: 2417 FHP: 2427

IFP: 63-83 FFP: 54-74

ISIP: 253 FSIP: 381

BHT: 116°F



DST #2: 4667-4754 (Mississippi)

Times: 15-30-60-90

**Initial Open: Stg, Blow b.o.b. 30 sec, gts 4 min
(see rates below) return blow bled off to no blow**

**Final Open: Stg, b.o.b. instant (see rates below),
wk surf return blow**

Rec: 4365' gas in pipe, 283' Total Fluid

165' SOGCM: 5%g 10%o 0%w 85%m

118' SGWOCM: 16%g 20%o 14%w 50%m

IHP: 2438 FHP: 2388

IFP: 508-372 FFP: 283-357

ISIP: 1512 FSIP: 1510

BHT: 114°F

Gas Gauges:

(gas lights, but will not keep burning)

IF 10 min 237.0MCFGPD 1/4" choke

15 min 742.0MCFGPD 1/2" choke

FF 10 min 708.0MCFGPD 1/2" choke

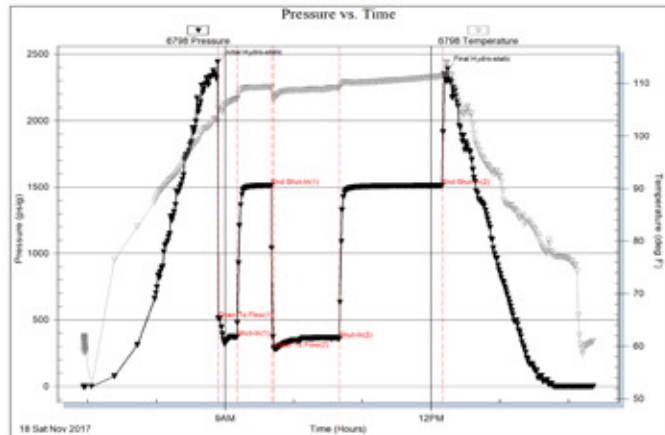
20 min 957.0MCFGPD 1/2" choke

30 min 1,005.0MCFGPD 1/2" choke

40 min 1,011.8MCFGPD 1/2" choke

50 min 1,018.5MCFGPD 1/2" choke

60 min 1,018.5MCFGPD 1/2" choke



DST #3: 4754-4764 (Mississippi)

Times: 15-30-60-90

Initial Open: Stg Blow, b.o.b. 30 sec, gts 8 min, 6" return blow

Final Open: Stg Blow, b.o.b. instant, return blow stg,
gas-mud-oil to surface in surges then bled off to gas only

Rec: (reversed fluid out of hole, but recovered less than a barrel of fluid,
most fluid flowed to pit during FSIP)

Recovery: 4738 ft Total Fluid, includes 4618' GCO (20% gas, oil 36.6* API)
flow to surface and two stands of water, 120',
below circ. sub, 80,000 ppm Chl)

IHP: 2599 FHP: 2363

IFP: 262-336 FFP: 401-796

ISIP: 1507 FSIP: 1513

BHT: 130°F

Gas Gauges: (gas lights and burns well)

IF 10 min 53.9M CFGPD 1/2" choke

15 min 67.4M CFGPD 1/2" choke

FF 10 min 44.4M CFGPD 1/4" choke

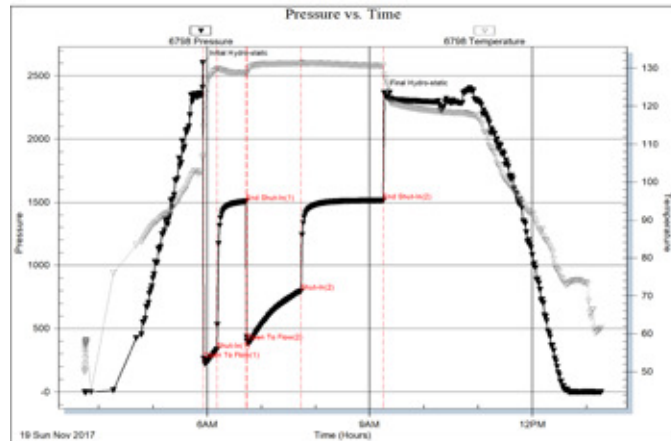
20 min 63.4M CFGPD 1/4" choke

30 min 71.3M CFGPD 1/4" choke

40 min 55.5M CFGPD 1/4" choke

50 min 39.6M CFGPD 1/4" choke

60 min 31.7M CFGPD 1/4" choke



Rock Types

Congl granite wash	Bent	Dol 1	Mrlst	Ss
dol ls limey	Brec	Dol	Salt	Till
New symbol	Cht	Gyp	Shale	Sltysh
Dolom ls limey	Clyst	Igne	Shcol	Shlysiltst
New symbol	Black shale/coal	Lmst	Shgy	Sandyls
Anhy	Congl	Meta	Siltst	

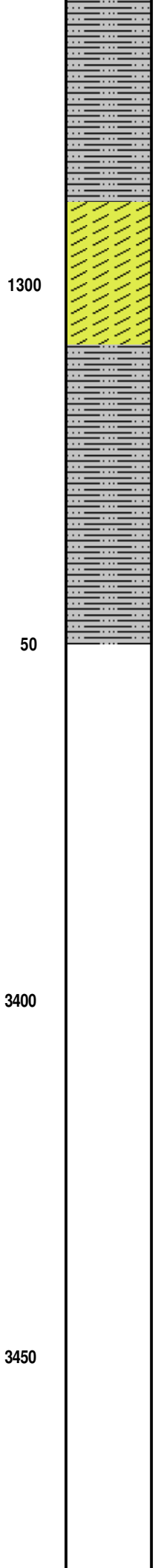
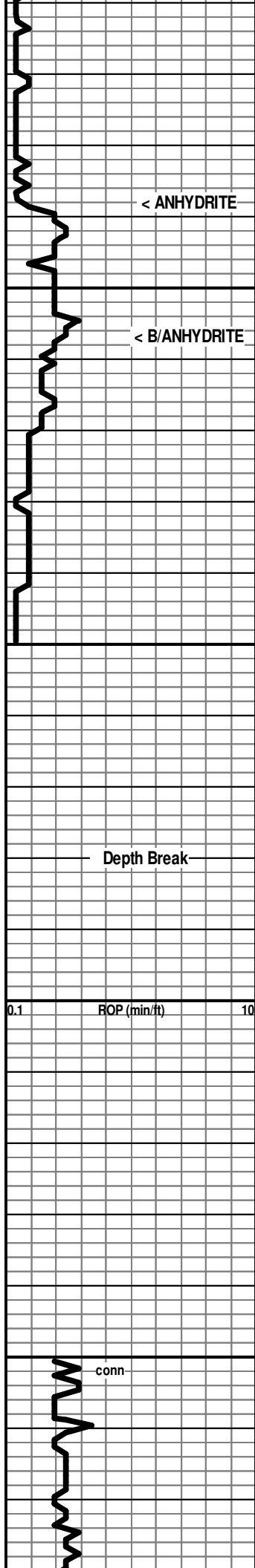
Accessories

MINERAL	Gyp	FOSSIL	Ostra	Siltstrg
Anhy	Hvymin	Algae	Pelec	Ssstrg
Arggrn	Kaol	Amph	Pellet	TEXTURE
Arg	Marl	Belm	Pisolite	Boundst
Bent	Minxl	Bioclst	Plant	Chalky
Bit	Nodule	Brach	Strom	Cryxln
Brecfrag	Phos	Bryozoa	STRINGER	Earthy
Calc	Pyr	Cephal	Anhy	Finexln
Carb	Salt	Coral	Shale	Grainst
Chtdk	Sandy	Crin	Bent	Lithogr
Chtlt	Silt	Echin	Coal	Microxln
Dol	Sil	Fish	Dol	Mudst
Feldspar	Sulphur	Foram	Gyp	Packst
Ferrpel	Tuff	Fossil	Ls	Wackest
Ferr		Gastro	Mrst	
Glau		Oolite		

Other Symbols

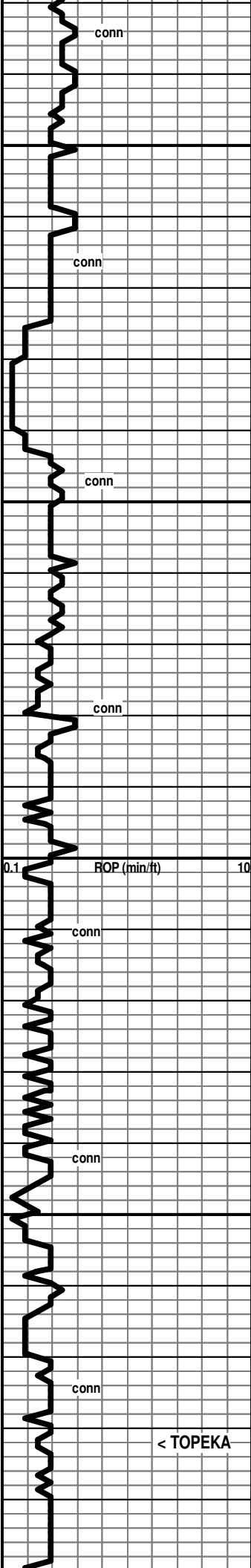
OIL SHOW	Even	Dead	INTERVAL
Oil & gas show	Spotted	Gas	Core
Gas show	Trace show or ques		Dst

ROP (min/ft)	Depth	Lithology	Geological Descriptions	Remarks
ROP (min/ft) 0.1 ROP (min/ft) 10	1200			
	50			



← 1288 (+961)
Anhydrite Interval, based on drill time only!
← 1307 (+942)

* Displace and Mud up @ 3388 Ft!



3500

3550

3600

3650

3700

conn

conn

conn

conn

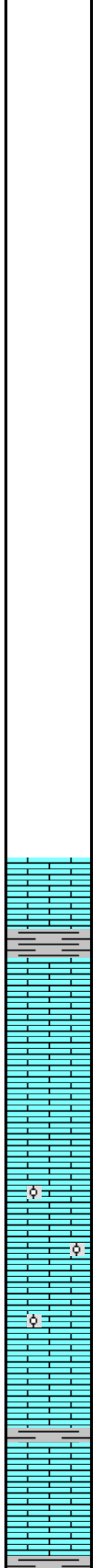
conn

conn

conn

< TOPEKA

0.1 ROP (min/ft) 10



Ls wh-cr, fn xln, chalky in pt, fn xln, pr xln por in pt, foss

Sh gy

Ls cr-gy, fn xln, pr xln pr, scatt pp pores, foss toabund foss

Ls wh-cr-gy, fn xln, chalky & soft in pt, pr xln por in pt, dns in pt, foss to abund foss, ool in pt

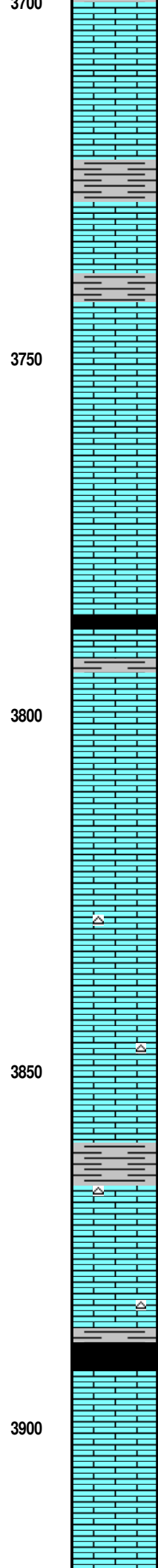
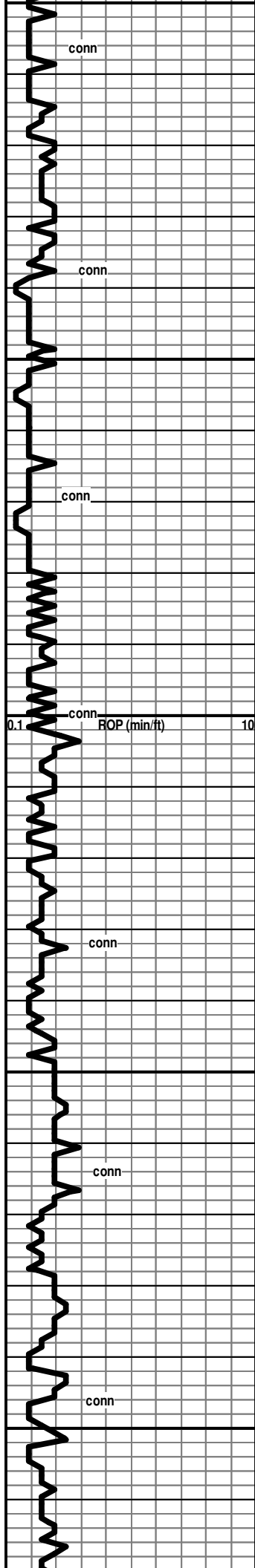
Ls wh-cr, fn xln, dns, foss

Sh gy

Ls wh-cr, fn xln, dns, foss

Sh gy

← 3882 (-1433)



Sh gy

Ls wh-cr-tan, fn xln, chalky in pt, pr xln por-dns in pt, foss

Sh gy-dk gy

Ls wh-cr-tan, fn xln, chalky in pt, pr xln por-dns in pt, foss

Sh gy-dk gy

Ls wh-cr-tan, fn xln, chalky in pt, pr-fr xln por in pt, foss

Ls wh-cr-tan, fn xln, chalky in pt, pr-fr xln por in pt, foss

Ls wh-cr-tan, fn xln, chalky in pt, pr-fr xln por in pt, foss

Sh black, carb

Sh gy-dk gy

Ls wh-cr-tan, fn xln, soft & chalky in pt, pr-fr xln por in pt, foss-abund foss

Ls wh-cr-tan-gy, fn xln, some chalky-subchalky, pr-fr xln por in pt, foss-abund foss, chert: fresh-subgrainy text, gy-tan, foss in pt

Ls wh-cr,fn xln, pr xln por, scatt pp pores, foss

Ls wh-cr,fn xln, pr-fr xln por, scatt pp pores, foss, chert: gy-tan, sub opa, spiculitic

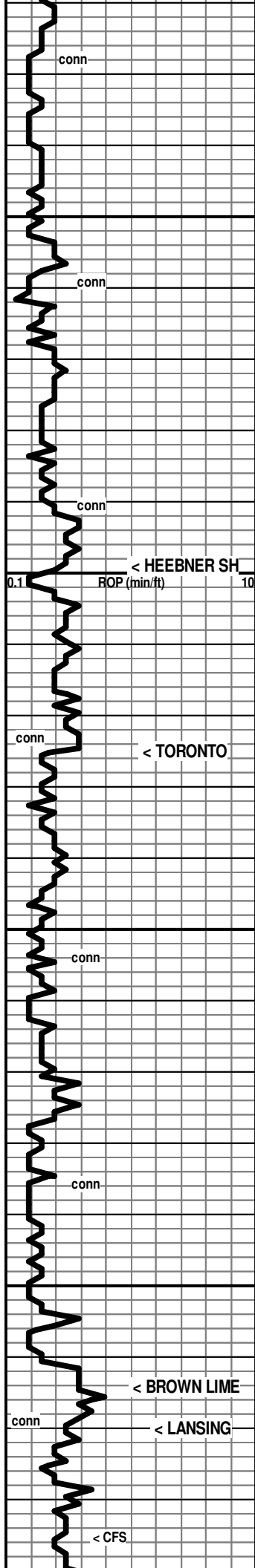
Sh dk gy-black, carb (some in 3920' & 3940' spl)

Ls wh-cr-tan, fn xln, pr xln por in pt, dns in pt, chalky in pt, foss

Mud Check, Drlg @ 3857':

Vis	Wt	WL	LCM	PV	YP
69	9.0	7.6	.5	22	23
Chl	Hd	pH	Solids		
6900	30	10.0	4.6		

7:00 AM, November 13, 2017



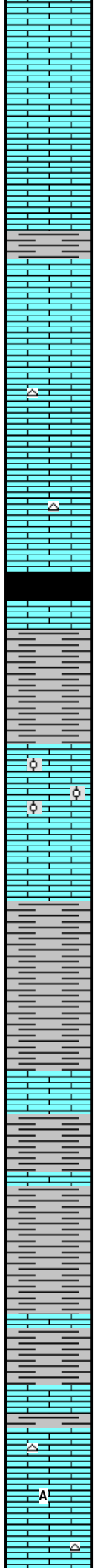
3950

4000

4050

WOB 35k
RPM 80
PP 800
SPM 62

4100



Ls wh-cr-pl gy, fn xln, pr-fr xln por in pt, chalky in pt, dns in pt, foss

Sh gy

Ls wh-cr-tan, fn xln, some chalky pcs, pr-fr xln por in pt, scatt pp pores, dns in pt, foss

Ls wh-cr-tan, fn xln, some chalky pcs, pr-fr xln por in pt, scatt pp pores, dns in pt, foss, trace of chert: subgrainy text, gy-tan, subopaq

<----- 3999 (-1750)
Sh black, carb (some in 4010' spl, some in 4020' spl)

Ls cr, fn xln, dns, foss

Sh gy-red-grnish

<----- 4025 (-1776)

Ls cr-gy, fn xln, pr-fr xln por in pt, sli chalky in pt, dns in pt, foss, ool in pt

[No Show]

Sh gy-gm

Ls wh-cr, fn xln to blocky md xln, dns, foss

Sh pl gy-gy-dk gy to grnish gy

Ls wh-cr, fn xln to blocky md xln, dns, foss

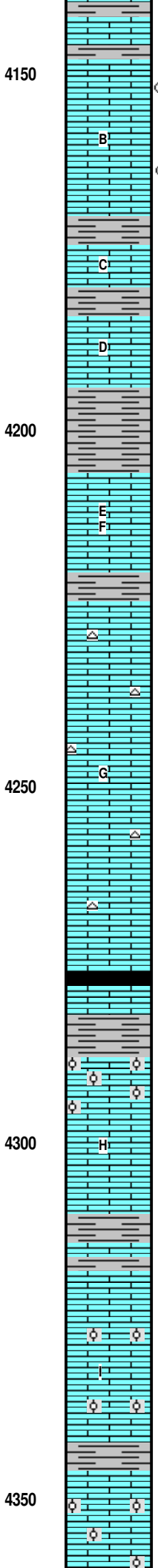
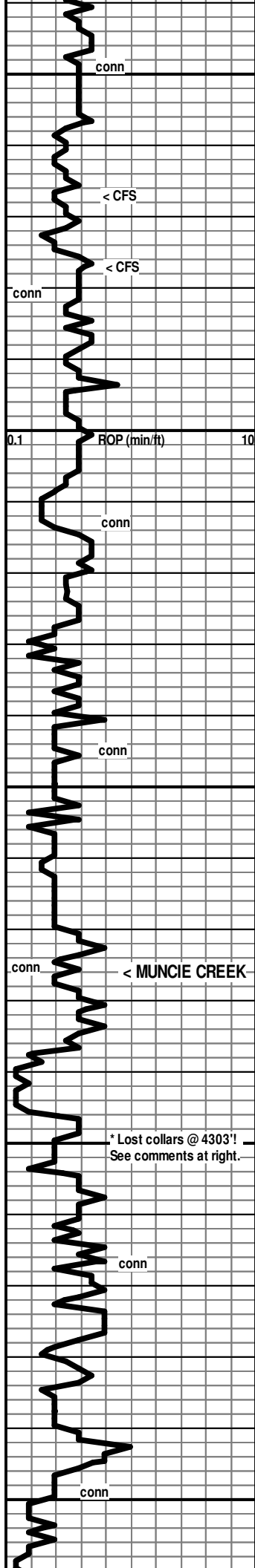
Sh pl gy-gy-dk gy to grnish gy

<----- 4114 (-1865)
Ls cr-gy-brn, vfn-fn xln, dns

<----- 4120 (-1871)

Ls wh-cr-tan, fn xln, some chalky, mostly pr xln por to dns, scatt pp pores, scatt rhombic transl calcite patches, foss, chert: pl gy, fresh, subopaq

[No Show]



Ls wh-cr-tan, vfn-fn xln, dns

Sh gy

<4148-4157: Ls cr, fn xln, some dolom text, pr xln por, scatt pp pores, foss

Show Descr. —————>

<4157-4167: Ls cr, fn xln, pr xln por, Rr pp pores, foss in pt

[No Odor, few pcs total with Rr spots of Fluor, No show oil, No gas bubbles, from above?]

<4167-4170: Ls cr-gy, fn xln pr-fr xln por, scatt pp pores & sm vugs, foss, abund shale in spls

Sh gm-gy-black

Ls cr, fn xln, pr xln por to dns, foss

Sh gy-dk gy

Ls wh-cr-gy, fn xln, pr xln por-dns, foss in pt

Sh gy-dk gy-gmish gy

Ls mostly wh-cr, some tan, fn xln, pr xln por, foss

Sh gy

Ls wh-cr-tan, fn xln, pr xln por to dns, foss, chert: fresh cr-gy, subtransl

Ls wh-cr, v fn-fn xln, mostly dns, some pr xln por, some chalky, foss in pt, chert: fresh, gy, subtr

Ls wh-cr-tan, vfn-fnxln, mostly dns, sli foss, cherty

←————— 4276 (-2027)

Sh black, carb

Sh gy-gmish gy

*Geologist had rig catch 30 & 60 min spls after much fishing and after circulation was broken during fishing operations! A few pcs (poorly represented) of very oom Ls cr-tan-gy was found in spls that were mostly shales.

[No Shows were detected in the oom Ls spls recovered. See above description]

Ls wh-cr, vfn-fn xln, dns, foss in pt

Sh gy-gm

Ls wh-cr, fn xln, subchalky in pt, dns in pt, foss in pt, ool in pt

Ls wh-cr, fn xln, subchalky in pt, dns in pt, foss in pt, ool in abund

[Above 4157': (in 4160' spl): V Fnt flashy Odor, V Low % pcs with patchy mod-brt Fluor, No show of oil or gas bubbles under white light, trace of colorless fluor drops on crush under black light]

*4303 Ft: Loosing pump pressure. Rig suspects a cracked collar. Trip Out of Hole @ 4303 ft, to look for problem. Came out of hole light. Left 12 collars in hole. Top of fish at 3950'. Go in with overshot. On fish, but stuck. Perf-tech called out. Shot out bit and float, free pointed, and attempted to off casing. Could not part pipe. Still Stuck in hole with no progress. Pumped down 77 bbls crude oil (from Horacek Lease). Spotting onto backside at intervals, and working pipe every hour. Perf-Tech called back out to locate free points. Shot at 4164' with questionable results. Begin TOOH with weight indicator suggesting complete drill string together. Pulled fish, complete with bit. Lay down 8 collars, pick up 8 replacements. Remaining collars inspected and magnafluxed. Trip back in hole, CTCH, and return to drilling.

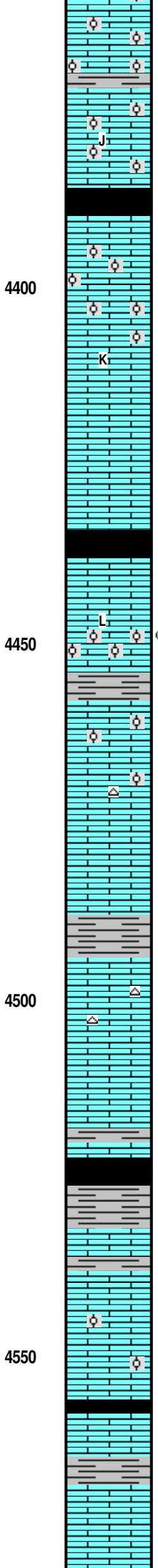
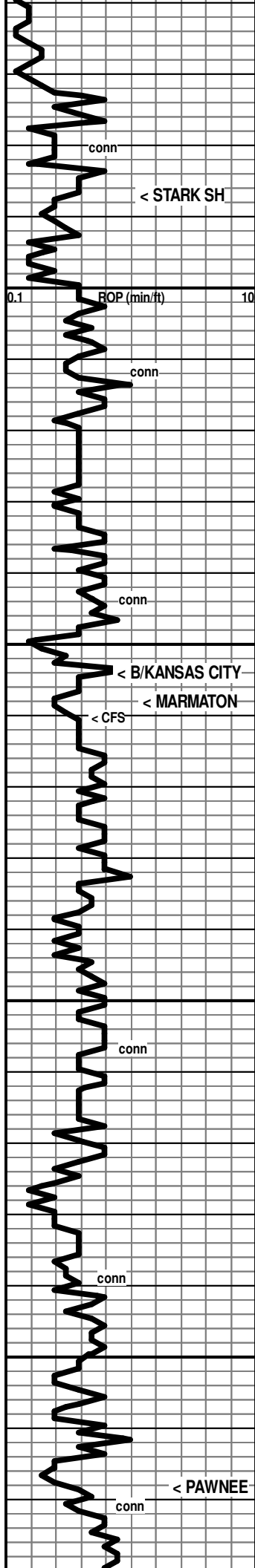
7:00 AM, November 14, 2017
7:00 AM, November 15, 2017

Mud Check, Fishing, TD presently @ 4303':

Vis	Wt	WL	LCM	PV	YP
58	9.3	9.2	.5	16	18
Chl	Hd	pH	Solids		
5100	30	10.0	6.8		

Mud Check, TOOH @ 4303':

Vis	Wt	WL	LCM	PV	YP
88	9.0	7.2	.25	20	25
Chl	Hd	pH	Solids		
7100	20	9.5	4.6	*77 bbl crude added	



Ls wh-cr, fn xln, subchalky in pt, dns-p rxln por in pt, foss in pt, ool in abund (weath'd to oom in pt)

Sh gy

Ls cr-tan-gy, fn xln, mealy text in pt, pr vis xln por, mostly ool, scatt oom & weathering, foss

← 4387 (-2138)

Sh black, carb

Ls cr-tan-gy, fn xln, pr vis xln por, chalky in patches, mostly ool, scatt oom & weathering, foss

Ls cr-tan, vfn to fn xln, dns

Ls wh-cr-tan, vfn-fn xln, subchalky in pt, dns in pt, foss in pt

Sh black, carb

Ls wh-cr, fn xln, dns to chalky, sli foss

Ls wh-cr-tan, fn xln, chalky in patches & pcs, abund ool & oom, foss in pt

[No Odor, Scatt patches of dull-mod fluor in chalky pcs, NSO, No show of gas bubbles, No stn]

← 4454 (-2205)

Sh gy

← 4458 (-2209)

Ls cr-tan, fn xln, dns with Rr scatt sm calcite vugs and patches, sli foss, ool in pt (from above?)

Ls cr-tan, fn xln, dns with Rr scatt sm calcite vugs and patches, patches & pcs chalky, sli foss, chert: gy-tan, fresh, opa, foss, still see mod am't of ool/oom pcs

Sh gy-black

Ls wh-cr-tan, fn xln, mostly dns, some chalky, foss in pt, chert: fresh, tan, subtransl, foss in pt

Ls wh-cr-tan, fn xln, mostly dns, some chalky, foss in pt (still a moderate am't of ool pcs in spls...from above?)

Sh gy-dk gy-black (sli carb in pt)

Ls wh-cr-tan, vfn-fn xln, dns in pt, chalky & soft in pt, foss

Ls cr-tan-gy, vfn-fn xln, dns, foss in pt, ool in pt

Sh gy-dk gy-black, carb in pt

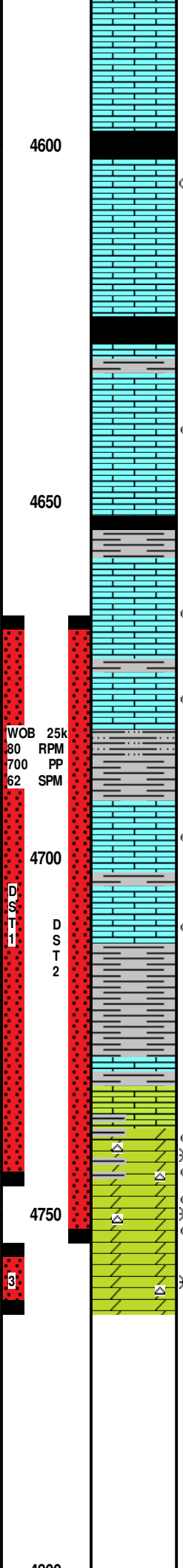
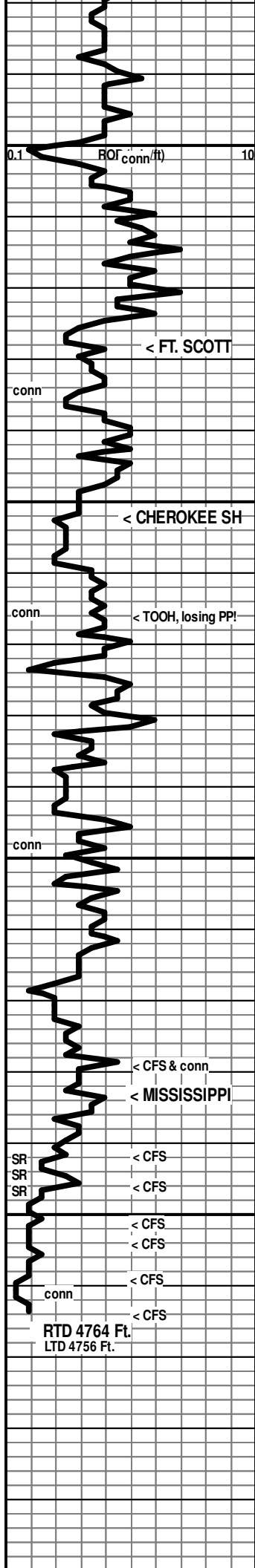
← 4568 (-2319)

Ls wh-cr-tan, vfn-fn xln, mostly dns & hard, some soft & chalky, scatt calcite patches, foss in pt

7:00 AM, November 16, 2017

Mud Check, Drlg @ 4460':

Vis	Wt	WL	LCM	PV	YP
77	8.6	6.8	.5	18	22
Chl	Hd	pH	Solids		
7600	120	10.5	4.5		



Ls wh-cr-tan, vfn-fn xln, mostly dns & hard, some soft & chalky, scatt calcite patches, foss in pt

Sh black, carb

Ls cr-tan, fn xln por xln por to dns, subchalky in pt, foss

[No Odor, Scatt mod fluor in spots and patches, No show of oil or gas]

Ls cr-tan, vfn-fn xln, dns, foss

Sh black, carb

← 4628 (-2379)

Sh gy

Ls wh-cr-tan-gy, vfn-fn xln, mostly dns, some pr xln por, some chalky, foss

[scatt fluor, see comment to right]

← 4652 (-2403)

Sh black, carb

Sh gy

Ls cr-tan, vfn-fn xln, dns, foss in pt (did not see bottoms up prior to TOOH)

[scatt fluor, see comment to right]

Sh dk gy-black

Ls wh-cr-tan, vfn-fn xln, dns, scatt chalky on edges, foss in pt

[scatt fluor, see comment to right]

Sh gy-brnsh gy-dk gy, silty in pt

Ls wh-cr-tan-gy, vfn-fn xln, dns, subchalky in pt, foss in pt

[scatt fluor, see above comment to right]

Ls wh-cr-tan-gy, vfn-fn xln, dns, subchalky in pt, foss in pt, scatt pyrite patches

[scatt fluor, see above comment to right]

Sh various colors: gy-dk gy-red-grn-yell, argill to subsilty to silty to earthy text, scatt pyritic, abund ls in spls

← 4733 (-2484)

4736-4742: Dol. & Limey Dol. cr-gy fnxln, silty-sucrosic text, pr vis xln por to dns, mostly pr crush, Rr pp pores

Show Descr. →

4743-4746: Dol. & Limey Dol. cr-gy-grnsh fnxln, silty-sucrosic text, Rr md xln subrhombic pcs, pr vis xln por to dns, pr-fr crush, Rr pp pores, Rr vugs, Chert: fresh, tan, subtransl

Show Descr. →

4747-4751: (spl 90% various colored shales with embedded & loose pyrite) 10% Dol. cr-tan, fnxln, suc text, pr-fr xln por, scatt gm glauc spots, pr-gd crush

Show Descr. →

4752-4754: (spl 85% various colored shales with embedded & loose pyrite) 15% Dol. cr-tan, fnxln, suc text, pr-fr xln por, Rr rhombic patches, scatt vugs & ppores, scatt gm glauc spots, pr-gd crush, some fresh chert

Show Descr. →

4755-4759: (Spl 90% shales of various colors red-yell-grn-gy with pyrite) 10% Dol cr-tn, fn xln, pr-fr xln por, suc, scatt pp pores, pr-gd crush, scatt gm glauc specks, chert: fresh, gy-tan-grn

Show Descr. →

4760-4764: (spl 80% Shales as above) 20% Dol cr-tan, fn xln, suc text, pr-fr xln por, scatt pp pores & vugs, pr-fr-gd crush, some fresh chert, some ls in spls

* [Low to Mod am't of pcs in trays from Ft. Scott down through Cherokee Ls with dull-mod spotty to patchy fluor, No Odors, no shows of oil or gas bubbles in white light]

* Keep losing pump pressure. TOOH to inspect pipe @ 4666 ft! Found nothing wrong with drill string. With oil in mud, pump pressure variations may be due to air in mud with pockets of very aired up mud.

* [Low to Mod am't of pcs in trays from Ft. Scott down through Cherokee Ls with dull-mod spotty to patchy fluor, No Odors, no shows of oil or gas bubbles in white light]

Mud Check, CFS @ 4742':

Vis	Wt	WL	LCM	PV	YP
56	8.8	9.2	1	23	20
Chl	Hd	pH	Solids		
7950	60	9.2	3.2		

*Add premix!

7:00 AM, November 17, 2019

* Pipe Strap @4746': 1.79 ft short!

[4736-4742: Mod + Odor, abund mod-brt Fluor, Sli Shows of colorless-lt brn FO to NVL oil, v. sli gassy in pt, Rr lt tan stn]

[4743-4746: Stg Odor, Abund patchy to even Fluor, Sli gassy in pt, mostly sli shows of lt brn FO with less Fr shows and Rr Gd shows of NVL oil & lt brn FO, spotty-patchy lt brn stn]

[4747-4751: Fnt Odor, Low % pcs with spotty-patchy fluor, trace to sli show lt brn FO, V Rr lt tan stn]

[4752-4754: Fnt Odor, Low % pcs with spotty-patchy fluor, trace to sli show lt brn FO, trace gas bubbles, Rr lt tan stn]

[4755-4759: Fnt Odor, patchy fluor in dol, trace show of lt brn FO on crush, sli show of gas bubbles, Rr trace of tan stn]

[4760-4764: Mod Odor, patchy-even mod fluor, mix of trace sli fr shows of gassy brn



QUALITY OILWELL CEMENTING, INC.
 PO Box 32 - 740 West Wichita Ave, Russell KS 67665
 PHONE: 785-324-1041 FAX: 785-483-1087
 EMAIL: cementing@ruraltel.net

Date: 11/9/2017
 Invoice # 445
 P.O.#:
 Due Date: 12/9/2017
 Division: Russell

Invoice

Contact:
 Carmen Schmitt Inc
Address/Job Location:

P.O. Box 47
 Great Bend Ks 67530

Reference:
 WETZEL 1 SEC 17-26-20

Description of Work:
 SURFACE JOB

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 702.29	No				
Common-Class A	200	\$ 2,779.76	Yes				
Calcium Chloride	9	\$ 340.05	Yes				
POZ Mix-Standard	50	\$ 236.14	Yes				
Pump Truck Mileage-Job to Nearest Camp	65	\$ 197.35	No				
Bulk Truck Matl-Material Service Charge	265	\$ 178.80	No				
Bulk Truck Mileage-Job to Nearest Bulk Plant	65	\$ 153.49	No				
Premium Gel (Bentonite)	5	\$ 97.83	Yes				
8 5/8" Centralizer	2	\$ 86.36	Yes				

Invoice Terms:

Net 30

	SubTotal:	\$	4,772.08
	Discount Available <u>ONLY</u> if Invoice is Paid & Received within listed terms of invoice:	\$	(119.30)
<hr/>			
	SubTotal for Taxable Items:	\$	3,451.64
	SubTotal for Non-Taxable Items:	\$	1,201.13
<hr/>			
	Total:	\$	4,652.78
	Tax:	\$	258.87
	7.50% Edwards County Sales Tax		

Thank You For Your Business!

Amount Due: \$ 4,911.65
Applied Payments:
Balance Due: \$ 4,911.65

Past Due Invoices are subject to a service charge (annual rate of 24%)
 This does not include any applicable taxes unless it is listed.
 ©2008-2013 Straker Investments, LLC. All rights reserved.

7/10/43
 19360.0001 BCP
 Well Ate
 Surface Cement

QUALITY OILWELL CEMENTING, INC.

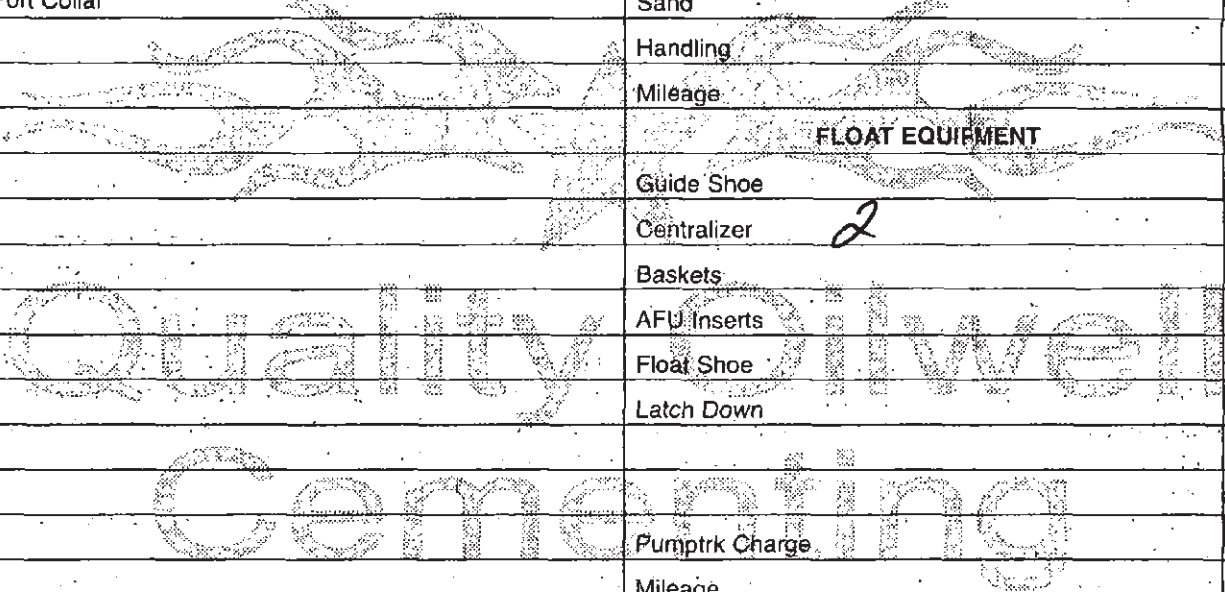
Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 445

Date	11-9-17	Sec.	17	Twp.	26	Range	20	County	Edwards	State	Ks	On Location		Finish	7:15 PM
Lease	Wetzel			Well No.	1		Owner	2 ³ / ₄ 1 ¹ / ₄ E EIS							
Contractor	Murfin #16			To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.											
Type Job	Surface			Charge To	Carmen Schmitt Inc										
Hole Size	12 1/4"			T.D.	352'		Street								
Csg.	8 5/8"			Depth	352'		City	State							
Tbg. Size				Depth			The above was done to satisfaction and supervision of owner agent or contractor.								
Tool				Depth			Cement Amount Ordered 250 80/20 3+2 1/2 #F/6 seal								
Cement Left in Csg.	15'			Shoe Joint	15'										
Meas Line				Displace	21 1/4 BLS										
EQUIPMENT							Common								
Pumptrk	16	No.		Cementier	Tony		Poz. Mix								
				Helper											
Bulktrk	15	No.		Driver	Jordan		Gel.								
				Driver											
Bulktrk pu.		No.		Driver	Rick		Calcium								
				Driver											
JOB SERVICES & REMARKS							Hulls								
Remarks:	Cement dil Circulate						Salt								
Rat Hole							Flowseal								
Mouse Hole	Cut 150' of Sand						Kol-Seal								
Centralizers							Mud CLR 48								
Baskets	Mixed 250 sx Cement.						CFL-117 or CD110 CAF 38								
D/V or Port Collar							Sand								
							Handling								
							Mileage								
							FLOAT EQUIPMENT								
							Guide Shoe								
							Centralizer 2								
							Baskets								
							AFU Inserts								
							Float Shoe								
							Latch Down								
							Pumptrk Charge								
							Mileage								
							Tax								
							Discount								
							Total Charge								
X Signature	[Signature]														





P. O. Box 466
Ness City, KS 67560
Off: 785-798-2300



Invoice

DATE	INVOICE #
11/20/2017	30871

BILL TO
Carmen Schmitt, Inc. P. O. Box 47 915 Harrison Great Bend, KS 67530-0047

- Acidizing
- Cement
- Tool Rental

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#1	Wetzel	Edwards	Murfin Drilling	Oil	Development	Top-Btm Longstr...	David E.
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				60	Miles	5.00	300.00
579D	Pump Charge - Two-Stage & Top To Bottom LongString				1	Job	1,700.00	1,700.00
290	D-Air				10	Gallon(s)	42.00	420.00T
221	Liquid KCL (Clayfix)				2	Gallon(s)	25.00	50.00
281	Mud Flush				500	Gallon(s)	1.25	625.00T
402-5	5 1/2" Centralizer				10	Each	60.00	600.00T
403-5	5 1/2" Cement Basket				3	Each	250.00	750.00T
406-5	5 1/2" Latch Down Plug & Baffle				1	Each	225.00	225.00T
407-5	5 1/2" Insert Float Shoe With Auto Fill				1	Each	300.00	300.00T
330	Swift Multi-Density Standard (MIDCON II)				600	Sacks	15.75	9,450.00T
287	Gas Stop (2 LBS/SK)				350	Lb(s)	7.00	2,450.00T
285	CFR-1				100	Lb(s)	4.50	450.00T
276	Flocele				150	Lb(s)	2.25	337.50T
581D	Service Charge Cement				600	Sacks	1.50	900.00
583D	Drayage				1,812	Ton Miles	0.75	1,359.00
	Subtotal							19,916.50
	Sales Tax Edwards County						7.50%	1,170.56

710/43
19360.0001
Well file
"Cement Long String"

We Appreciate Your Business!

Total

\$21,087.06



CHARGE TO: Carman Schmitt
 ADDRESS: _____
 CITY, STATE, ZIP CODE: _____

1. SERVICE LOCATIONS <u>Hays Ks</u>	WELL/PROJECT NO. <u>#1</u>	LEASE <u>Wetzel</u>	COUNTY/PARISH <u>Edwards</u>	STATE <u>Ks</u>	CITY
2. <u>Ness City Ks</u>	TICKET TYPE <input type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR <u>Murfin Drilling</u>	RIG NAME/NO. <u>Rig #</u>	SHIPPED VIA <u>CT</u>	DELIVERED TO <u>Location</u>
3.	WELL TYPE <u>Oil</u>	WELL CATEGORY <u>development</u>	JOB PURPOSE <u>Top to Bottom long String</u>	WELL PERMIT NO.	
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS				

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	U/M	QTY.	U
		LOC	ACCT	DF					
575		1			MILEAGE Trk # 111	60	mi		
579		1			Pump Charge Top to Bottom	1	EA		
290		1			D-Air	10	GM		
221		1			Liquid Kcl	2	GM		
281		1			Mud Flush	500	GM		
402		1			Centralizer	10	EA	5 1/2	
403		1			Cement Basket	3	EA		
406		1			Latch down plug & Baffle	1	EA		
407		1			Insert float shoe w/ Auto fill	1	EA		
		1							

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, **PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY** provisions:

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

DATE SIGNED _____ TIME SIGNED _____ A.M. P.M.

REMIT PAYMENT TO:
 SWIFT SERVICES, INC.
 P.O. BOX 466
 NESS CITY, KS-67560
 785-798-2300

SURVEY	AGREE	UN-DECIDED	A
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?			
WE UNDERSTOOD AND MET YOUR NEEDS?			
OUR SERVICE WAS PERFORMED WITHOUT DELAY?			
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?			
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES	<input type="checkbox"/> NO	

CUSTOMER DID NOT WISH TO RESPOND

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this invoice.

SWIFT OPERATOR: David Edgerton APPROVAL: _____



PO Box 466
Ness City, KS 67560
Off: 785-798-2300

TICKET CONTINUATION

CUSTOMER: Carman Schmitt
WELL: Wetzel #1

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	QTY		U/M	QTY		U/M	
		LOC	ACCT	DF									
330		2				Swift MultiDensity	600	SKS					
287		2				Gas stop	7	SKS		350	lb		
285		2				CFR-1	100	lbs					
276		2				Flocele	150	lbs					
581		2				SERVICE CHARGE Cement			CUBIC FEET	600	SKS		
583		2				MILEAGE CHARGE			TOTAL WEIGHT	60384		LOADED MILES	60
									TON MILES	1812			

CON

JOB LOG

SWIFT Services, Inc.

DATE 11-20-14 PAGE NO.

CUSTOMER Carman Schmitt WELL NO. #1 LEASE Wetzel JOB TYPE TOP TO Bottom TICKET NO. 30871

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1030							On location
								Csg - 5 1/2 x 14 #
								RTD - 4764
								Shoe JT - 37.22
								Insert e 4728.38
								Total Pipe - 4765.61
								Centracizers - 2, 4, 6, 8, 10, 12, 14, 16, 84, 85
								Baskets - 2, 32, 83
	1100							Start running Csg
	1310							Break circ on Bottom
	1340	2.5	16			0		plug rat hole - 30 sks
	1345	2.5	11			0		plug mouse hole - 20 sks
	1350	6.5	12			400		pump mud flush - 500 gal
		6.5	20			400		pump Kel spacer
	1355	6.5	0			400		Start cmr e 11.2 ppq
		5	205			200		Start cmr w/ gas stop e 13.5 ppq
	1445	5	242			200		End cmr
								Drop plug - Wash P & L
	1450	6.5	0			200		Start Disp
		6.5	100			1000		Circ cmr
	1510	5	115			1200		land plug lift psi - 1200 psi
								land psi - 1800 psi
								Release psi - Dry
								Circulate 25 sks cmr to pit
								Thanks
								David, Zach, Wayne & Kirby



DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt Inc**

PO Box 47
Great Bend, KS 67530

ATTN: Brad Rine

Wetzel #1

17-26S-20W Edwards,KS

Start Date: 2017.11.17 @ 14:53:41

End Date: 2017.11.17 @ 22:11:11

Job Ticket #: 63631 DST #: 1

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2017.11.21 @ 09:32:09



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Carmen Schmitt Inc
PO Box 47
Great Bend, KS 67530
ATTN: Brad Rine

17-26S-20W Edwards,KS

Wetzel #1

Job Ticket: 63631 **DST#: 1**
Test Start: 2017.11.17 @ 14:53:41

GENERAL INFORMATION:

Formation: **Mississippi**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 16:37:26
Time Test Ended: 22:11:11
Interval: **4667.00 ft (KB) To 4746.00 ft (KB) (TVD)**
Total Depth: 4746.00 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: 2249.00 ft (KB)
2244.00 ft (CF)
KB to GR/CF: 5.00 ft

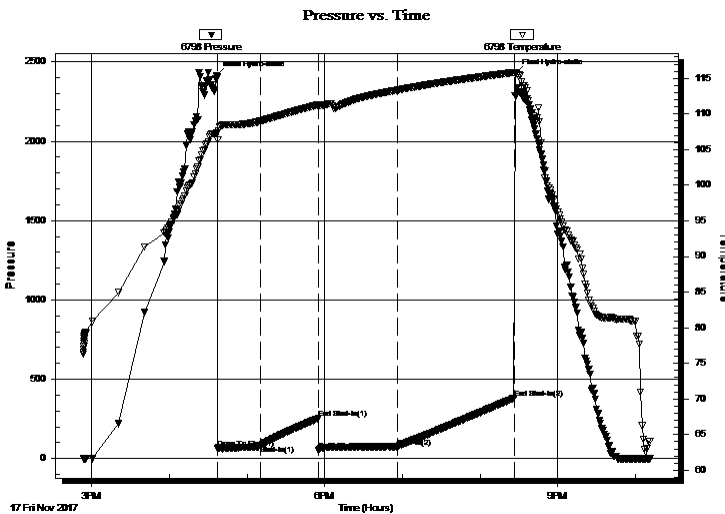
Serial #: 6798

Inside

Press@RunDepth: 73.59 psig @ 4668.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2017.11.17 End Date: 2017.11.17 Last Calib.: 2017.11.17
Start Time: 14:53:42 End Time: 22:11:11 Time On Btm: 2017.11.17 @ 16:36:26
Time Off Btm: 2017.11.17 @ 20:27:26

TEST COMMENT: IF: Fair Blow , BOB in 16 minutes
IS: No Blow Back
FF: Strong Blow , BOB in 20 seconds
FS: No Blow Back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2416.63	107.29	Initial Hydro-static
1	63.47	106.43	Open To Flow (1)
34	82.98	109.00	Shut-In(1)
79	253.11	111.27	End Shut-In(1)
79	53.83	111.23	Open To Flow (2)
140	73.59	113.34	Shut-In(2)
230	380.85	115.83	End Shut-In(2)
231	2426.95	115.61	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	2520' GIP	0.00
60.00	SGCM 2%G 98%M	0.30

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Carmen Schmitt Inc
PO Box 47
Great Bend, KS 67530
ATTN: Brad Rine

17-26S-20W Edwards,KS
Wetzel #1
Job Ticket: 63631 **DST#: 1**
Test Start: 2017.11.17 @ 14:53:41

Tool Information

Drill Pipe:	Length: 4436.00 ft	Diameter: 3.80 inches	Volume: 62.23 bbl	Tool Weight:	2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 238.00 ft	Diameter: 2.25 inches	Volume: 1.17 bbl	Weight to Pull Loose:	70000.00 lb
			<u>Total Volume: 63.40 bbl</u>	Tool Chased	ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial	64000.00 lb
Depth to Top Packer:	4667.00 ft			Final	64000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	79.00 ft				
Tool Length:	105.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
-------------------------	--------------------	-------------------	-----------------	-------------------	-----------------------

Shut In Tool	5.00			4646.00	
Hydraulic tool	5.00			4651.00	
Jars	5.00			4656.00	
Safety Joint	2.00			4658.00	
Packer	5.00			4663.00	26.00 Bottom Of Top Packer
Packer	4.00			4667.00	
Stubb	1.00			4668.00	
Recorder	0.00	6798	Inside	4668.00	
Recorder	0.00	6806	Outside	4668.00	
Perforations	5.00			4673.00	
Change Over Sub	1.00			4674.00	
Drill Pipe	63.00			4737.00	
Change Over Sub	1.00			4738.00	
Perforations	5.00			4743.00	
Bullnose	3.00			4746.00	79.00 Bottom Packers & Anchor

Total Tool Length: 105.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Carmen Schmitt Inc
PO Box 47
Great Bend, KS 67530
ATTN: Brad Rine

17-26S-20W Edwards,KS
Wetzel #1
Job Ticket: 63631 **DST#: 1**
Test Start: 2017.11.17 @ 14:53:41

Mud and Cushion Information

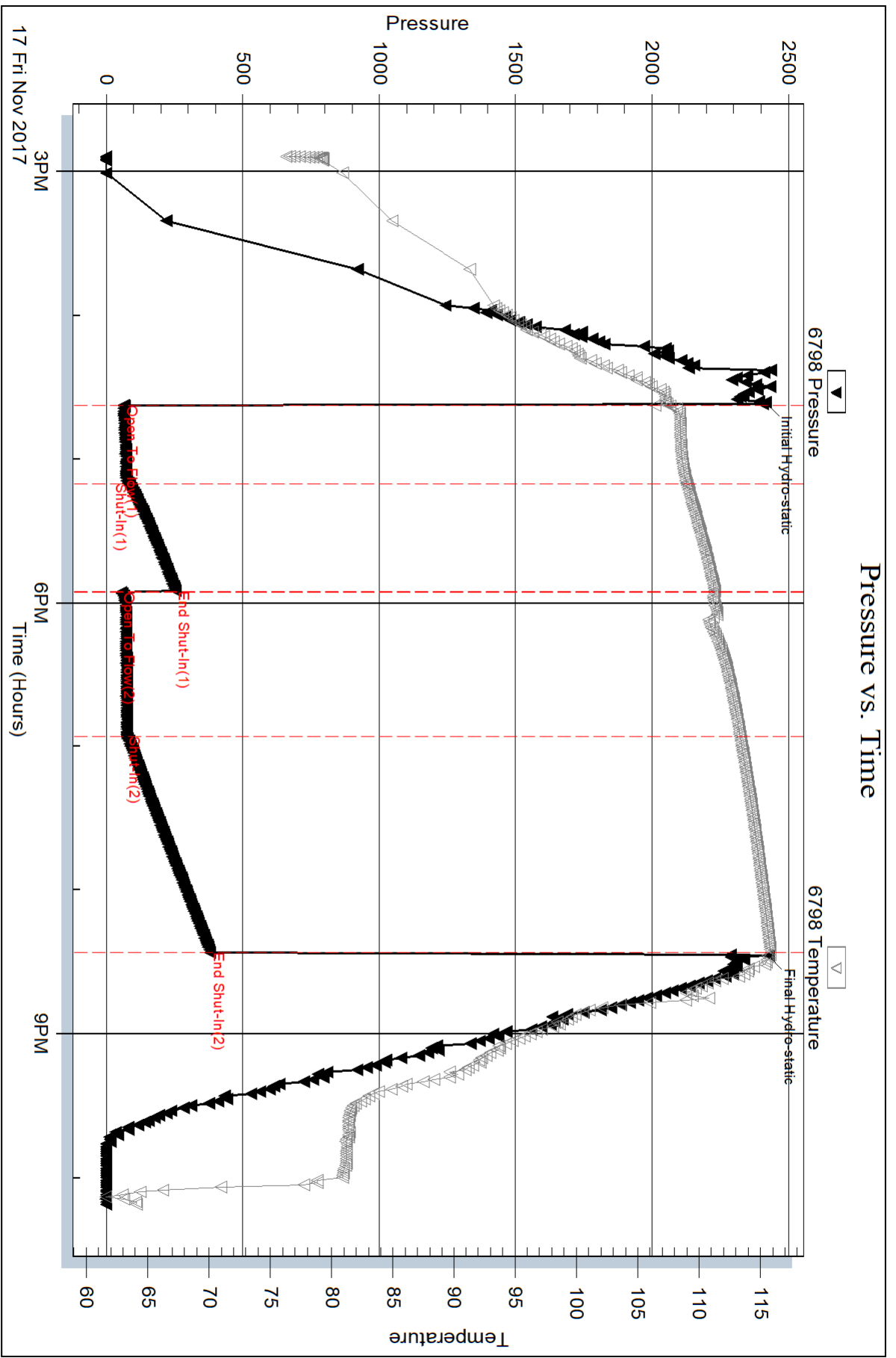
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 56.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.18 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 7950.00 ppm			
Filter Cake: 0.02 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	2520' GIP	0.000
60.00	SGCM 2%G 98%M	0.295

Total Length: 60.00 ft Total Volume: 0.295 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:



17 Fri Nov 2017 3PM

6PM Time (Hours)

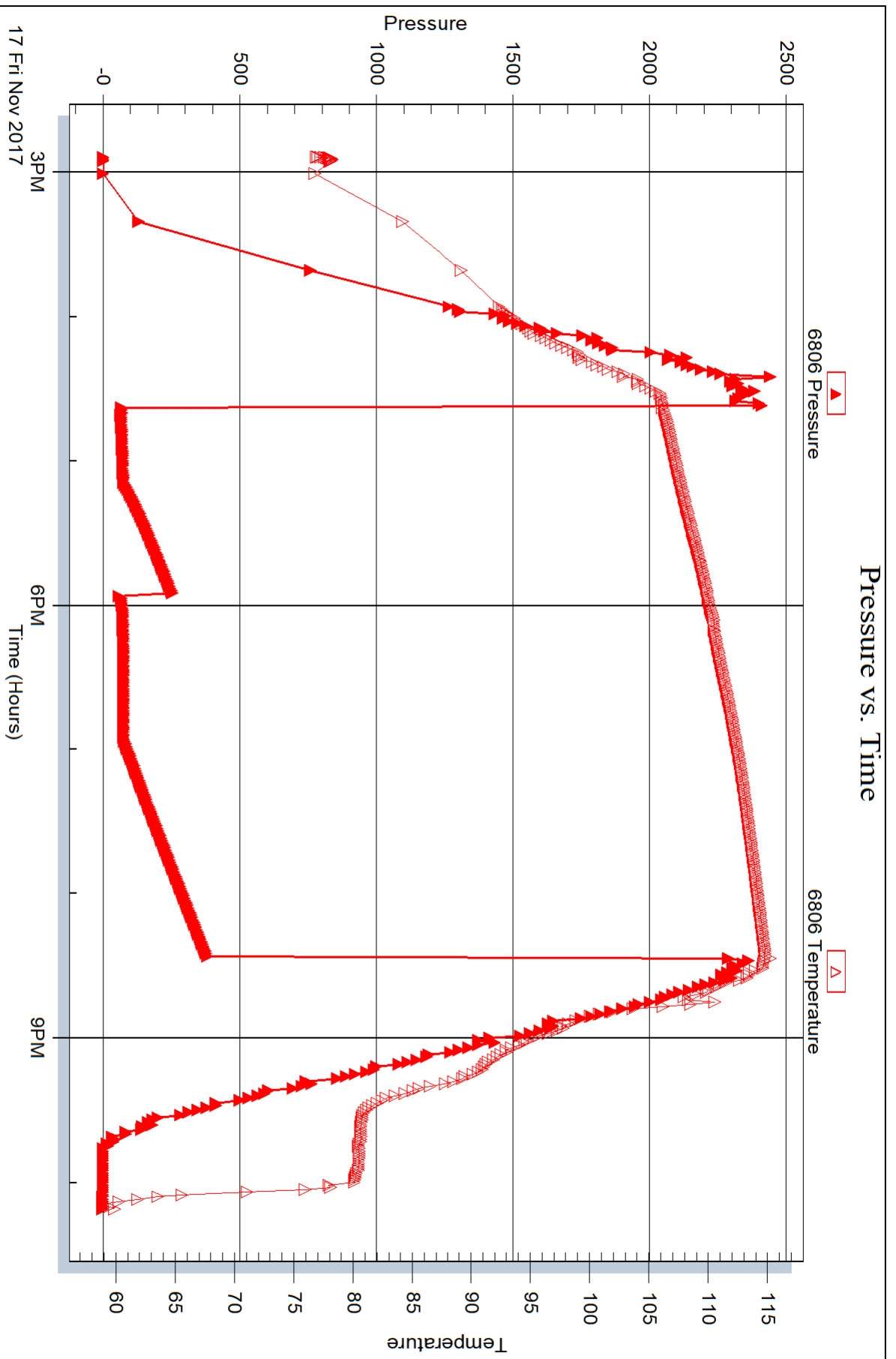
9PM

Serial #: 6806

Outside Carmen Schmitt Inc

Welzel #1

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt Inc**

PO Box 47
Great Bend, KS 67530

ATTN: Brad Rine

Wetzel #1

17-26S-20W Edwards,KS

Start Date: 2017.11.18 @ 06:56:18

End Date: 2017.11.18 @ 14:21:48

Job Ticket #: 63632 DST #: 2

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2017.11.21 @ 08:29:00

Carmen Schmitt Inc
17-26S-20W Edwards,KS
Wetzel #1
DST # 2
Mississippi
2017.11.18



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Carmen Schmitt Inc
PO Box 47
Great Bend, KS 67530
ATTN: Brad Rine

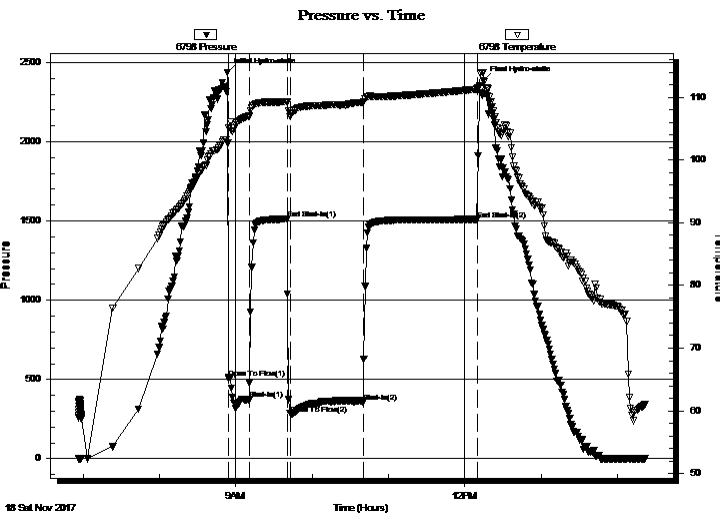
17-26S-20W Edwards,KS
Wetzel #1
Job Ticket: 63632 **DST#: 2**
Test Start: 2017.11.18 @ 06:56:18

GENERAL INFORMATION:

Formation: **Mississippi**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 08:54:18
Time Test Ended: 14:21:48
Interval: **4667.00 ft (KB) To 4754.00 ft (KB) (TVD)**
Total Depth: 4754.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Reset)
Tester: Leal Cason
Unit No: 74
Reference Elevations: 2249.00 ft (KB)
2244.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 6798 Inside
Press@RunDepth: 356.96 psig @ 4668.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2017.11.18 End Date: 2017.11.18 Last Calib.: 2017.11.18
Start Time: 06:56:19 End Time: 14:21:48 Time On Btm: 2017.11.18 @ 08:53:33
Time Off Btm: 2017.11.18 @ 12:14:33

TEST COMMENT: IF: Strong Blow , BOB in 30 seconds, GTS in 3 minutes, Gauged & Caught Sample
IS: No Blow Back
FF: Strong Blow , BOB & GTS Immediate, Gauged Gas
FS: Weak Surface Blow Back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2437.97	102.79	Initial Hydro-static
1	507.82	102.80	Open To Flow (1)
17	372.47	107.00	Shut-In(1)
47	1511.83	109.31	End Shut-In(1)
50	283.47	107.07	Open To Flow (2)
107	356.96	109.16	Shut-In(2)
197	1510.09	111.31	End Shut-In(2)
201	2387.99	113.91	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	4365 GIP	0.00
118.00	GWOCM 16%G 14%W 20%O 50%M	0.58
165.00	SOGCM 5%G 10%O 85%M	1.75

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	150.00	237.96
Last Gas Rate	0.50	151.00	1018.60
Max. Gas Rate	0.50	151.00	1018.60

* Recovery from multiple tests



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Carmen Schmitt Inc
 PO Box 47
 Great Bend, KS 67530
 ATTN: Brad Rine

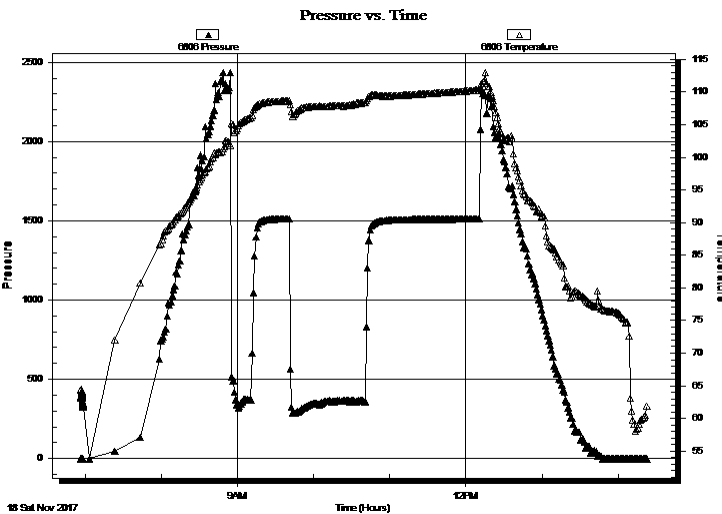
17-26S-20W Edwards,KS
Wetzel #1
 Job Ticket: 63632 **DST#: 2**
 Test Start: 2017.11.18 @ 06:56:18

GENERAL INFORMATION:

Formation: **Mississippi**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 08:54:18
 Time Test Ended: 14:21:48
Interval: 4667.00 ft (KB) To 4754.00 ft (KB) (TVD)
 Total Depth: 4754.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Leal Cason
 Unit No: 74
 Reference Elevations: 2249.00 ft (KB)
 2244.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 6806 Outside
 Press@RunDepth: psig @ 4668.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2017.11.18 End Date: 2017.11.18 Last Calib.: 2017.11.18
 Start Time: 06:56:19 End Time: 14:22:33 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: Strong Blow , BOB in 30 seconds, GTS in 3 minutes, Gauged & Caught Sample
 IS!: No Blow Back
 FF: Strong Blow , BOB & GTS Immediate, Gauged Gas
 FS!: Weak Surface Blow Back



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

Recovery		
Length (ft)	Description	Volume (bbl)
0.00	4365 GIP	0.00
118.00	GWOCM 16%G 14%W 20%O 50%M	0.58
165.00	SOGCM 5%G 10%O 85%M	1.75

Gas Rates			
	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	150.00	237.96
Last Gas Rate	0.50	151.00	1018.60
Max. Gas Rate	0.50	151.00	1018.60

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Carmen Schmitt Inc
PO Box 47
Great Bend, KS 67530
ATTN: Brad Rine

17-26S-20W Edwards,KS
Wetzel #1
Job Ticket: 63632 **DST#: 2**
Test Start: 2017.11.18 @ 06:56:18

Tool Information

Drill Pipe:	Length: 4468.00 ft	Diameter: 3.80 inches	Volume: 62.67 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 63.56 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	4667.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	87.00 ft			
Tool Length:	113.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In Tool	5.00			4646.00	
Hydraulic tool	5.00			4651.00	
Jars	5.00			4656.00	
Safety Joint	2.00			4658.00	
Packer	5.00			4663.00	26.00 Bottom Of Top Packer
Packer	4.00			4667.00	
Stubb	1.00			4668.00	
Recorder	0.00	6798	Inside	4668.00	
Recorder	0.00	6806	Outside	4668.00	
Perforations	8.00			4676.00	
Change Over Sub	1.00			4677.00	
Drill Pipe	63.00			4740.00	
Change Over Sub	1.00			4741.00	
Perforations	10.00			4751.00	
Bullnose	3.00			4754.00	87.00 Bottom Packers & Anchor

Total Tool Length: 113.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Carmen Schmitt Inc
PO Box 47
Great Bend, KS 67530
ATTN: Brad Rine

17-26S-20W Edwards,KS
Wetzel #1
Job Ticket: 63632 **DST#: 2**
Test Start: 2017.11.18 @ 06:56:18

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 36.6 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 80000 ppm
Viscosity: 56.00 sec/qt	Cushion Volume: bbl	
Water Loss: 9.18 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 7950.00 ppm		
Filter Cake: 0.02 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	4365 GIP	0.000
118.00	GWOCM 16%G 14%W 20%O 50%M	0.580
165.00	SOGCM 5%G 10%O 85%M	1.750

Total Length: 283.00 ft Total Volume: 2.330 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments: Rw .1 @ 68



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

Carmen Schmitt Inc
PO Box 47
Great Bend, KS 67530
ATTN: Brad Rine

17-26S-20W Edwards,KS

Wetzel #1

Job Ticket: 63632

DST#: 2

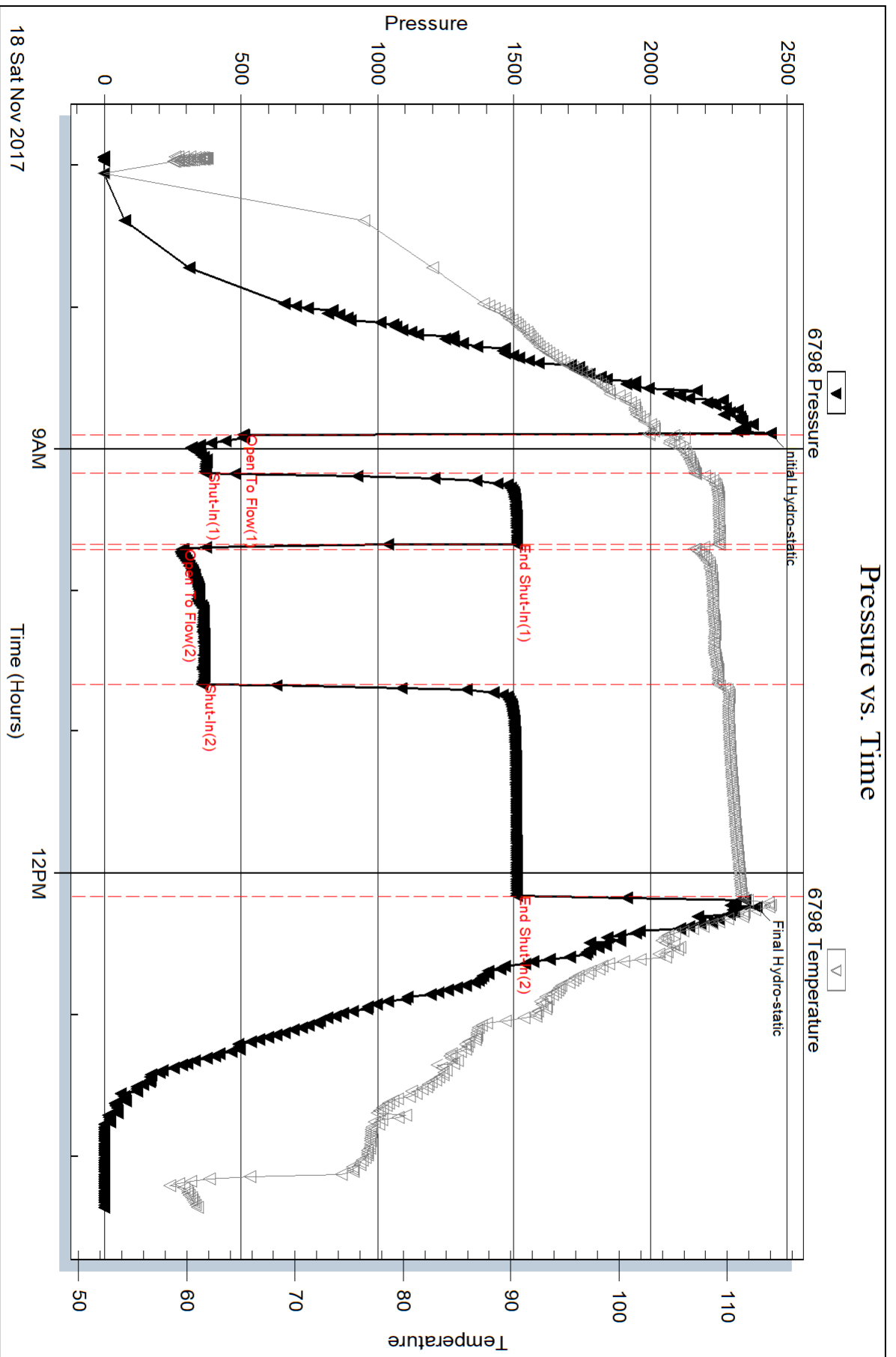
Test Start: 2017.11.18 @ 06:56:18

Gas Rates Information

Temperature: 59 (deg F)
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
1	10	0.25	150.00	237.96
1	15	0.50	110.00	742.03
2	10	0.50	105.00	708.30
2	20	0.50	142.00	957.89
2	30	0.50	149.00	1005.11
2	40	0.50	150.00	1011.85
2	50	0.50	151.00	1018.60
2	60	0.50	151.00	1018.60

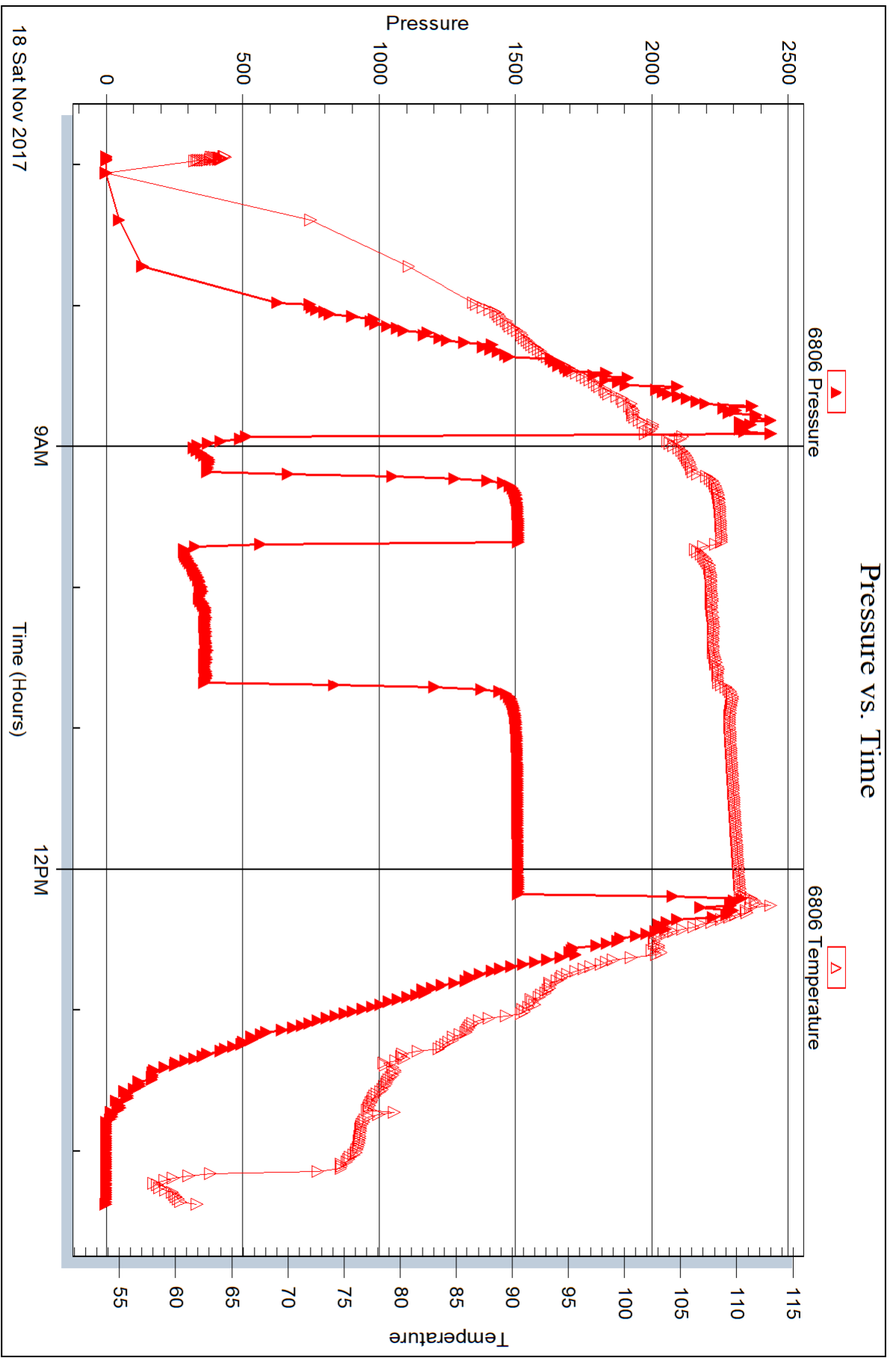


Serial #: 6806

Outside Carmen Schmitt Inc

Welzel #1

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 63632

Printed: 2017.11.21 @ 08:29:01



DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt Inc**

PO Box 47
Great Bend, KS 67530

ATTN: Brad Rine

Wetzel #1

17-26S-20W Edwards,KS

Start Date: 2017.11.19 @ 03:44:15

End Date: 2017.11.19 @ 13:16:45

Job Ticket #: 63633 DST #: 3

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2017.11.21 @ 09:26:08

Carmen Schmitt Inc
17-26S-20W Edwards,KS
Wetzel #1
DST # 3
Mississippi
2017.11.19



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Carmen Schmitt Inc
PO Box 47
Great Bend, KS 67530
ATTN: Brad Rine

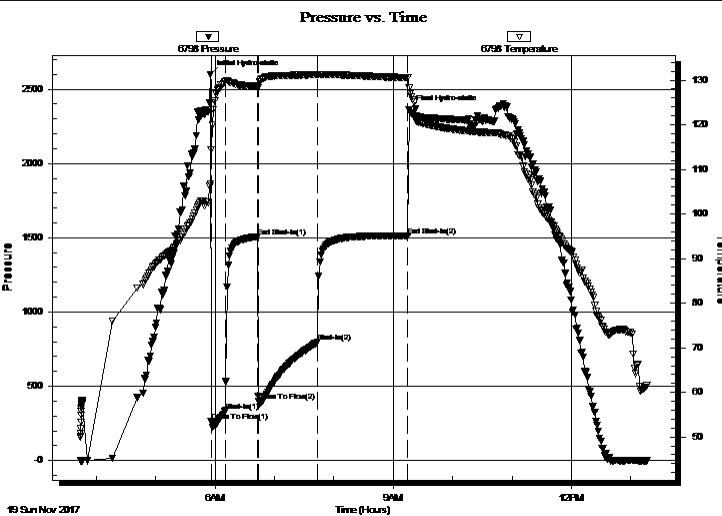
17-26S-20W Edwards,KS
Wetzel #1
Job Ticket: 63633 **DST#: 3**
Test Start: 2017.11.19 @ 03:44:15

GENERAL INFORMATION:

Formation: **Mississippi**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 05:56:00
Time Test Ended: 13:16:45
Interval: **4754.00 ft (KB) To 4764.00 ft (KB) (TVD)**
Total Depth: 4764.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Reference Elevations: 2249.00 ft (KB)
2244.00 ft (CF)
KB to GR/CF: 5.00 ft
Test Type: Conventional Bottom Hole (Reset)
Tester: Leal Cason
Unit No: 74

Serial #: 6798 Inside
Press@RunDepth: 796.05 psig @ 4755.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2017.11.19 End Date: 2017.11.19 Last Calib.: 2017.11.19
Start Time: 03:44:16 End Time: 13:16:45 Time On Btm: 2017.11.19 @ 05:55:15
Time Off Btm: 2017.11.19 @ 09:16:00

TEST COMMENT: IF: Strong Blow , BOB in 30 seconds, GTS in 8 minutes, Gauged & Caught Sample
IS: Blow Back Built to 6 inches
FF: Strong Blow , BOB & GTS Immediate, Gauged Gas
FS: OTS During Bleed Off



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2599.04	106.82	Initial Hydro-static
1	261.74	114.48	Open To Flow (1)
16	335.76	129.71	Shut-In(1)
48	1507.05	128.54	End Shut-In(1)
49	400.91	128.74	Open To Flow (2)
109	796.05	131.18	Shut-In(2)
200	1513.45	130.53	End Shut-In(2)
201	2363.43	128.21	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	Water	0.59
4618.00	GCO 20%G 80%O	63.70
0.00	GTS	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.50	8.00	53.97
Last Gas Rate	0.25	20.00	31.73
Max. Gas Rate	0.25	45.00	71.39

* Recovery from multiple tests



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Carmen Schmitt Inc
PO Box 47
Great Bend, KS 67530
ATTN: Brad Rine

17-26S-20W Edwards, KS

Wetzel #1

Job Ticket: 63633

DST#: 3

Test Start: 2017.11.19 @ 03:44:15

GENERAL INFORMATION:

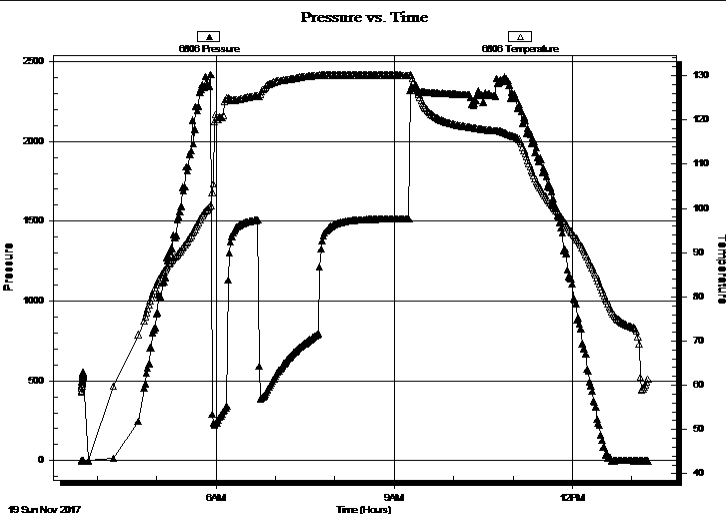
Formation: **Mississippi**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 05:56:00
Time Test Ended: 13:16:45
Interval: **4754.00 ft (KB) To 4764.00 ft (KB) (TVD)**
Total Depth: 4764.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Reset)
Tester: Leal Cason
Unit No: 74
Reference Elevations: 2249.00 ft (KB)
2244.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 6806

Outside

Press@RunDepth: psig @ 4755.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2017.11.19 End Date: 2017.11.19 Last Calib.: 2017.11.19
Start Time: 03:44:16 End Time: 13:17:00 Time On Btm:
Time Off Btm:

TEST COMMENT: IF: Strong Blow, BOB in 30 seconds, GTS in 8 minutes, Gauged & Caught Sample
IS: Blow Back Built to 6 inches
FF: Strong Blow, BOB & GTS Immediate, Gauged Gas
FS: OTS During Bleed Off



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
120.00	Water	0.59
4618.00	GCO 20%G 80%O	63.70
0.00	GTS	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.50	8.00	53.97
Last Gas Rate	0.25	20.00	31.73
Max. Gas Rate	0.25	45.00	71.39

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Carmen Schmitt Inc
PO Box 47
Great Bend, KS 67530
ATTN: Brad Rine

17-26S-20W Edwards,KS
Wetzel #1
Job Ticket: 63633 **DST#: 3**
Test Start: 2017.11.19 @ 03:44:15

Tool Information

Drill Pipe:	Length: 4500.00 ft	Diameter: 3.80 inches	Volume: 63.12 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 238.00 ft	Diameter: 2.25 inches	Volume: 1.17 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 64.29 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4754.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	10.00 ft			
Tool Length:	36.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments: Dropped Bar, Reversed Out

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4733.00	
Hydraulic tool	5.00			4738.00	
Jars	5.00			4743.00	
Safety Joint	2.00			4745.00	
Packer	5.00			4750.00	26.00 Bottom Of Top Packer
Packer	4.00			4754.00	
Stubb	1.00			4755.00	
Recorder	0.00	6798	Inside	4755.00	
Recorder	0.00	6806	Outside	4755.00	
Perforations	6.00			4761.00	
Bullnose	3.00			4764.00	10.00 Bottom Packers & Anchor

Total Tool Length: 36.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Carmen Schmitt Inc
PO Box 47
Great Bend, KS 67530
ATTN: Brad Rine

17-26S-20W Edwards,KS
Wetzel #1
Job Ticket: 63633 **DST#: 3**
Test Start: 2017.11.19 @ 03:44:15

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 36.6 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 80000 ppm
Viscosity: 56.00 sec/qt	Cushion Volume: bbl	
Water Loss: 9.17 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 7950.00 ppm		
Filter Cake: 0.02 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	Water	0.590
4618.00	GCO 20%G 80%O	63.703
0.00	GTS	0.000

Total Length: 4738.00 ft Total Volume: 64.293 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: Gravity was 36.4 @ 58 degrees
RW was .1 @ 68 degrees



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

Carmen Schmitt Inc
PO Box 47
Great Bend, KS 67530
ATTN: Brad Rine

17-26S-20W Edwards,KS

Wetzel #1

Job Ticket: 63633

DST#: 3

Test Start: 2017.11.19 @ 03:44:15

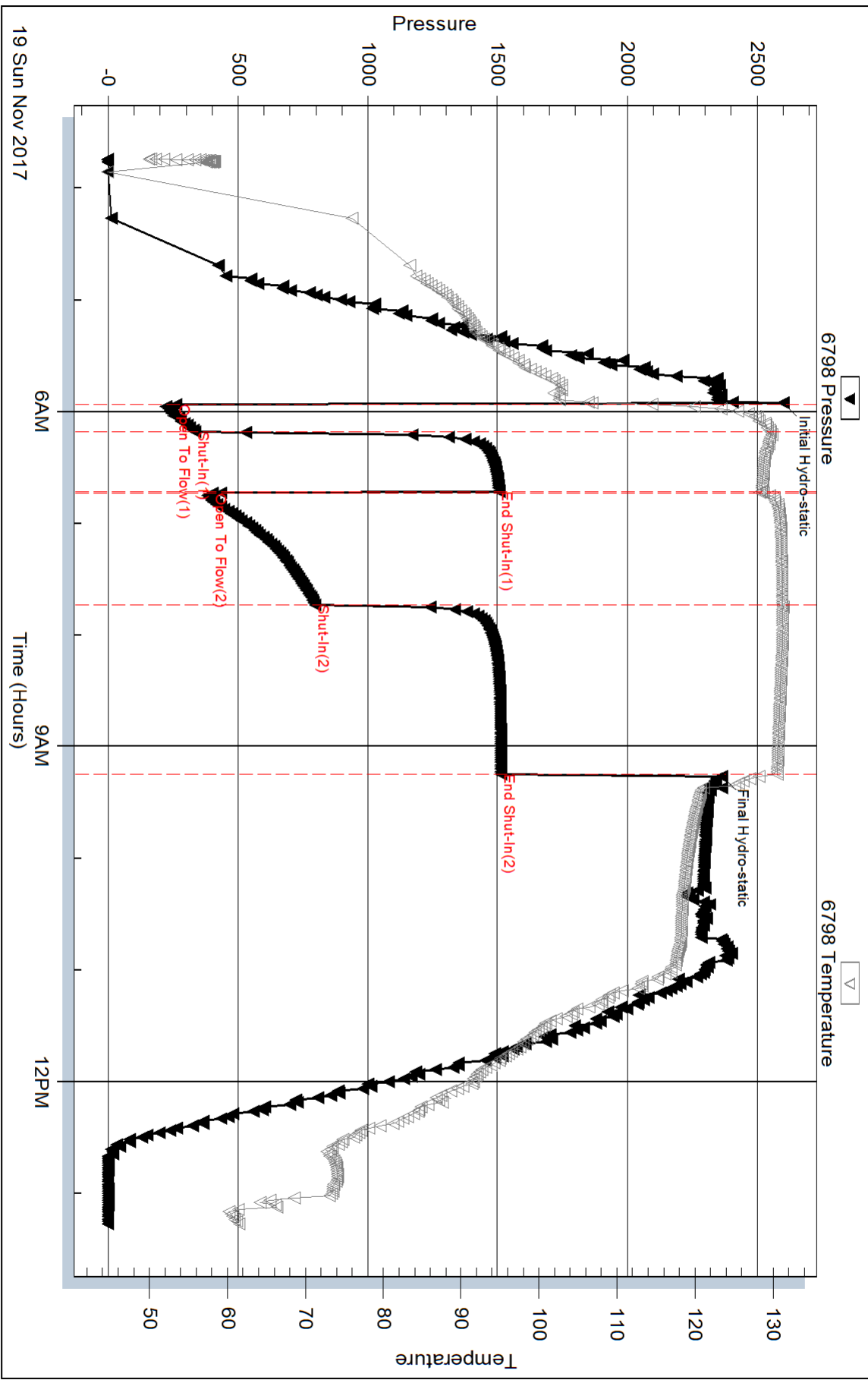
Gas Rates Information

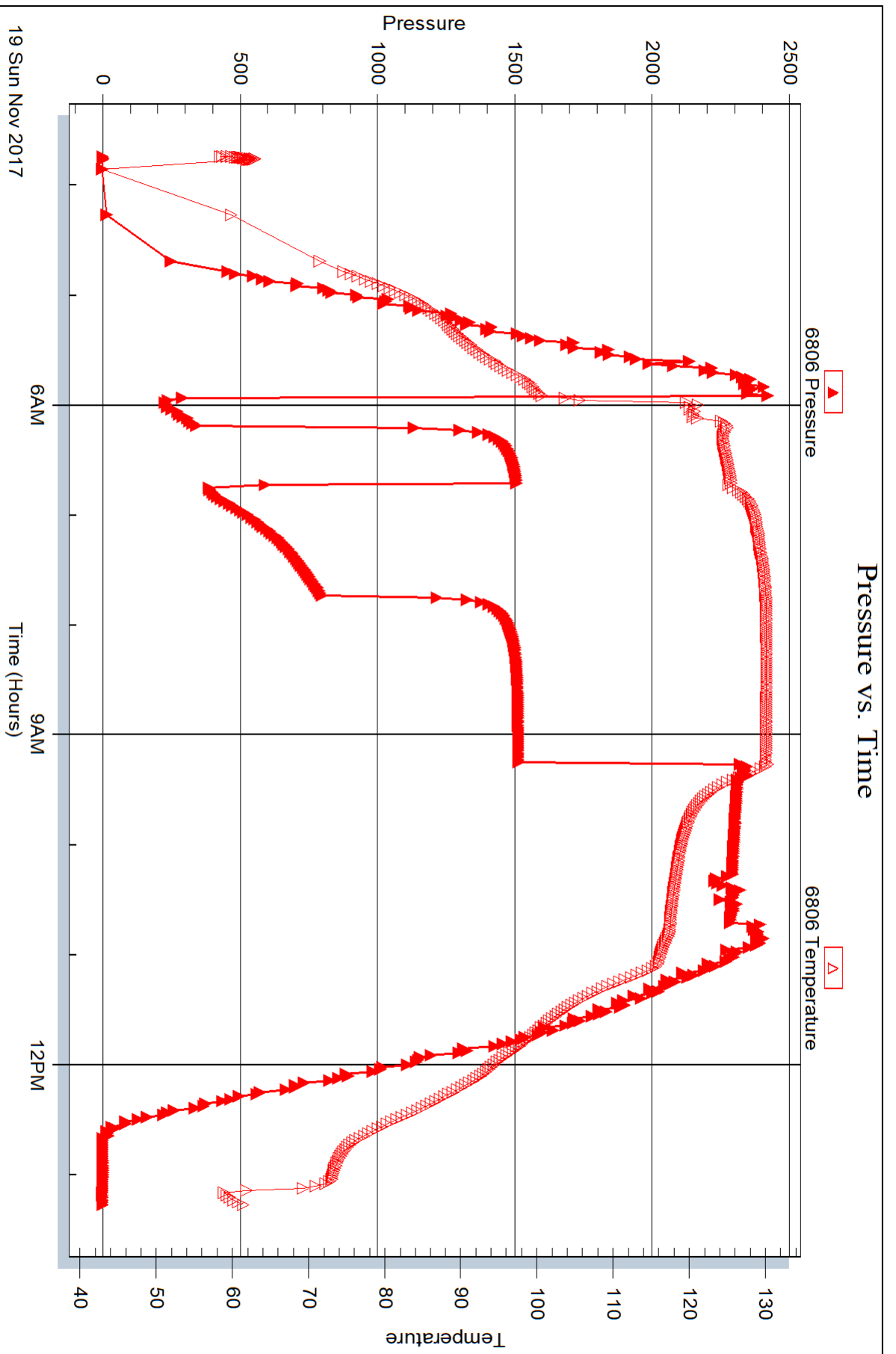
Temperature: 59 (deg F)
Relative Density: 0.65
Z Factor: 0.8

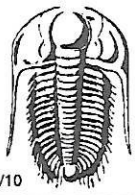
Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
1	10	0.50	8.00	53.97
1	15	0.50	10.00	67.46
2	10	0.25	28.00	44.42
2	20	0.25	40.00	63.46
2	30	0.25	45.00	71.39
2	40	0.25	35.00	55.52
2	50	0.25	25.00	39.66
2	60	0.25	20.00	31.73

Pressure vs. Time







TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **63631**

Well Name & No. Wetzel 1 Test No. 1 Date 11/17/17
 Company Carmen Schmitt Inc Elevation 2249 KB 2244 GL
 Address PO Box 47 Great Bend, KS 67530
 Co. Rep / Geo. Brad Rine Rig Murfin 16
 Location: Sec. 17 Twp. 26S Rge. 20W Co. Edwards State KS

Interval Tested 4667 - 4746 Zone Tested Mississippi
 Anchor Length 79 Drill Pipe Run 4436 Mud Wt. 8.8
 Top Packer Depth 4662 Drill Collars Run 238 Vis 56
 Bottom Packer Depth 4667 Wt. Pipe Run 0 WL 9.2
 Total Depth 4746 Chlorides 7950 ppm System LCM 1

Blow Description IF: Fair Blow, BOB in 16 minutes
ISI: NO Blow Back
FF: Strong Blow, BOB in 20 seconds
F5F: No Blow Back

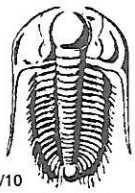
Rec	Feet of	%gas	%oil	%water	%mud
<u>2520</u>	<u>GIP</u>				
<u>60</u>	<u>SGCM</u>	<u>2</u>			<u>98</u>

Rec Total 60 BHT 116 Gravity NIC API RW NIC @ NIC F Chlorides NIC ppm

(A) Initial Hydrostatic <u>2417</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>14:00</u>
(B) First Initial Flow <u>63</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>14:53</u>
(C) First Final Flow <u>83</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>16:37</u>
(D) Initial Shut-In <u>253</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>20:26</u>
(E) Second Initial Flow <u>54</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>22:11</u>
(F) Second Final Flow <u>74</u>	<input checked="" type="checkbox"/> Mileage <u>160</u> <u>120</u>	Comments _____
(G) Final Shut-In <u>381</u>	<input type="checkbox"/> Sampler	_____
(H) Final Hydrostatic <u>2427</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Final Flow <u>60</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In <u>90</u>	<input type="checkbox"/> Day Standby	Total <u>1595.00</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't _____
	Sub Total <u>1595</u>	

Approved By Brad Rine Our Representative [Signature]

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **63632**

Well Name & No. Wetzel 1 Test No. 2 Date 11/18/17
 Company Carmen Schmitt Elevation 2249 KB 2244 GL
 Address PO Box 47 Great Bend, KS 67530
 Co. Rep/Geo. Brad Rine Rig Martin 16
 Location: Sec. 17 Twp. 26S Rge. 20W Co. Edwards State KS

Interval Tested 4667 - 4754 Zone Tested Mississippi
 Anchor Length 87 Drill Pipe Run 4468 Mud Wt. 8.8
 Top Packer Depth 4662 Drill Collars Run 180 Vis 56
 Bottom Packer Depth 4667 Wt. Pipe Run _____ WL 9.2
 Total Depth 4754 Chlorides 7950 ppm System LCM 1

Blow Description IF: Strong Blow, BOB in 30 seconds, GTS in 3 minutes, gauged & caught sample
ISI: NO Blow Back

FF: Strong Blow, BOB + GTS Immediate, Gauged Gas

FSI: Weak Surface Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>4365</u>	<u>GIP</u>				
<u>165</u>	<u>506CM</u>	<u>5</u>	<u>10</u>		<u>85</u>
<u>118</u>	<u>600CM</u>	<u>16</u>	<u>20</u>	<u>14</u>	<u>50</u>
____	____	____	____	____	____
____	____	____	____	____	____

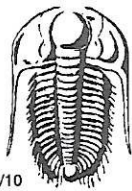
Rec Total 283 BHT 114 Gravity NIC API RW NIC @ NIC °F Chlorides NIC ppm

(A) Initial Hydrostatic 2438 Test 1150 T-On Location 06:30
 (B) First Initial Flow 508 ~~508~~ Jars 250 T-Started 06:56
 (C) First Final Flow 372 Safety Joint 75 T-Open 08:54
 (D) Initial Shut-In 1512 Circ Sub _____ T-Pulled 12:09
 (E) Second Initial Flow 283 Hourly Standby _____ T-Out 14:21
 (F) Second Final Flow 357 Mileage 1609 120 Comments _____
 (G) Final Shut-In 1510 Sampler _____
 (H) Final Hydrostatic 2388 Straddle _____

Ruined Shale Packer _____
 Shale Packer _____
 Ruined Packer _____
 Extra Packer _____
 Extra Copies _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____
 Sub Total 1595 Sub Total _____
 Total 1595.00 MP/DST Disc't _____

Approved By Brad Rine Our Representative _____

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **63633**

Well Name & No. Wetzel 1 Test No. 3 Date 11/19/17
 Company Carmen Schmitt Inc Elevation 2249 KB 2244 GL
 Address PO BOX 47 Great Bend, KS 67530
 Co. Rep / Geo. Brad Rine Rig Murfin 16
 Location: Sec. 17 Twp. 26S Rge. 20W Co. Edwards State KS

Interval Tested 4754 - 4764 Zone Tested Mississippi
 Anchor Length 10 Drill Pipe Run ~~4500~~ 4500 Mud Wt. 8.8
 Top Packer Depth 4749 Drill Collars Run 238 Vis 56
 Bottom Packer Depth 4754 Wt. Pipe Run 0 WL 8.4
 Total Depth 4764 Chlorides 6800 ppm System LCM 2

Blow Description IF: Strong Blow, BOB in 30 seconds, GTS in 8 minutes, Gauged + caught sample
ISI: Blow Back Built to 6 inches
FF: Strong Blow, BOB + GTS Immediate, Gauged Gas
FST: OTS During Bleed off

Rec	Feet of	%gas	%oil	%water	%mud
<u>46184</u>	<u>600</u>	<u>20</u>	<u>80</u>		
<u>120</u>	<u>Water</u>				

Rec Total 4738 BHT 130 Gravity 36.6 API RW .1 @ 68 °F Chlorides 80,000 ppm

(A) Initial Hydrostatic <u>2599</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>02:00</u>
(B) First Initial Flow <u>262</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>03:44</u>
(C) First Final Flow <u>336</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>05:56</u>
(D) Initial Shut-In <u>1507</u>	<input checked="" type="checkbox"/> Circ Sub <u>50</u>	T-Pulled <u>09:14</u>
(E) Second Initial Flow <u>401</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>13:16</u>
(F) Second Final Flow <u>796</u>	<input checked="" type="checkbox"/> Mileage <u>160</u> <u>120</u>	Comments <u>Dropped Bar, Reverted</u>
(G) Final Shut-In <u>1513</u>	<input type="checkbox"/> Sampler	<u>OUT</u>
(H) Final Hydrostatic <u>2363</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer

Initial Open 15
 Initial Shut-In 30
 Final Flow _____
 Final Shut-In _____

Shale Packer
 Extra Packer
 Extra Recorder
 Day Standby
 Accessibility

Sub Total 1645

Sub Total 0
 Total 1645.00
 MP/DST Disc't _____

Approved By Brad Rine Our Representative _____

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