

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 _____

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)</i> <i>(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	BRUMMER 1
Doc ID	1429278

Tops

Name	Top	Datum
Stone Corral	1170	713
Topeka	2820	-937
Heebner Sh.	3045	-1162
Toronto	3068	-1185
Lansing	3090	-1207
B/ Kansas City	3363	-1480
Marmaton	3400	-1517
Viola	3576	-1693
Simpson	3656	-1773
Arbuckle	3708	-1825



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

Well Name: Brummer #1 - Carmen Schmitt, Inc.
API: 15-141-20479-00-00
Location: SE-SW-NE-SW, Section 04-08S-15W
License Number: KCC #6569
Spud Date: September 11, 2019
Surface Coordinates: 1350' FSL & 1870' FWL,
of Section
Bottom Hole Vertical Wellbore
Coordinates:
Ground Elevation (ft): 1875 Ft.
Logged Interval (ft): 2100 Ft.
Formation: Arbuckle
Type of Drilling Fluid: Chemical
Region: Osborne Co., Kansas
Drilling Completed: September 18, 2019
Results: P & A
Field: Wildcat
K.B. Elevation (ft): 1883 Ft.
To: 3770 Ft. Total Depth (ft): RTD 3770 Ft. LTD 3773 Ft .

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 #320A
Wichita, Kansas 67202

Remarks

Based on sample observations, drill stem test results, and electric log evaluation, it was the decision of the Operator, to plug and abandon the "Brummer #1", on September 18, 2019.

Respectfully submitted,
M. Bradford Rine, geologist

Drilling Information

Rig: Southwind #3
Pump: Emsco D-375 6 x 14
Drawworks: Cardwell 350
Collars: 402' 2-1/4 x 6-1/4
Drillpipe: 4-1/2" 16.6# XH
Toolpusher: Jay Krier

Mud: Mudco (Gary Schmidtberger)
Gas Detector: None
Drill Stem Tests: Trilobite (Brannon Lonsdale)
Logs: Pioneer (Justin Henrickson)
Water: Pond North of Location (RPM Services)
Company Representatives:
Office: Carmen Schmitt
Field: None

Daily Drilling Status

Date:	Operations/Depth/Comments
09-11-19	MIRT, RU, Spud @ 0'
09-12-19	Waiting on Cement @ 210'
09-13-19	Drilling @ 1646'
09-14-19	Circulating for Samples @ 2650'
09-15-19	Circulating for Samples @ 2961'
09-16-19	Trip Out of Hole for DST #3 @ 3162'
09-17-19	Circulating for Samples @ 3352'
09-18-19	Circulating to Condition Hole for Logs @ 3770'
09-19-19	Finish Plugging @ 3770 ft At 2:00 AM, Septmeber 19, 2019

	Results: D & A			(Well A) D & A		(Well B) D & A		(Well C) D & A				
	Carmen Schmitt, Inc			N-B Co, Inc.		Anderson-Prichard		Anderson-Prichard				
	Brummer #1			Wilkenson #1		Gregory #1		Stephenson #1				
	1350'FSL & 1870'FWL			NE-NE-SE		SW-SW-NW		NE-NE-SE				
	Sec. 04-085-15W			Sec. 05-085-15W		Sec. 03-085-15W		Sec. 32-075-15W				
	KB 1883			KB 1859		KB 1901		KB 1870		Well A	Well B	Well C
Formations	Sample	E-Log	Datum	Sample	Datum	E-Log	Datum	E-Log	Datum	Comparisons		
Anhydrite	1169	1170	713	1192	667	1194	707	1147	723	46	6	-10
B/Anhydrite	1204	1204	679	1230	629	1227	674	1183	687	50	5	-8
Neva	2242	2240	-357			2233	-332	2212	-342			-25 -15
Tarkio	2658	2666	-783	2588	-729	2663	-762	2634	-764	-54	-21	-19
Topeka	2814	2820	-937	2788	-929	2820	-919	2788	-918	-8	-18	-19
Heebner Sh.	3041	3045	-1162	3014	-1155	3044	-1143	3010	-1140	-7	-19	-22
Toronto	3066	3068	-1185	3036	-1177	3066	-1165	3033	-1163	-8	-20	-22
Lansing	3084	3090	-1207	3057	-1198	3088	-1187	3054	-1184	-9	-20	-23
Muncie Creek Sh.	3223	3226	-1343			3225	-1324	3190	-1320			-19 -23
Stark Sh.	3302	3304	-1421	3336	-1477	3301	-1400	3270	-1400	56	-21	-21
B/Kansas City	3359	3363	-1480			3360	-1459	3328	-1458			-21 -22
Marmaton	3400	3400	-1517			3396	-1495	3368	-1498			-22 -19
B/Penn Lime	3487	3490	-1607			3492	-1591	3454	-1584			-16 -23
Viola	3572	3576	-1693	3523	-1664	3582	-1681	3506	-1636	-29	-12	-57
Simpson	3653	3656	-1773	3594	-1735	3680	-1779	3618	-1748	-38	6	-25
Arbuckle	3705	3708	-1825	3646	-1787	3732	-1831	3666	-1796	-38	6	-29
Total Depth	3770	3773	-1890	3670	-1811	3779	-1878	3721	-1851	-79	-12	-39

Casing Record, Bit Record, Deviation Surveys

CASING:

Conductor: None

Surface: Ran 5 jts new 8-5/8" 23# casing, set @ 210 ft. (Copeland) Cement with 195 sx Common 60/40 poz, 3%CC 2% gel. Plug down @ 2:15 a.m., on September 12, 2019. Cement did circulate.

Production: Plug and abandon as follows: (Quality) Plugged well with 280 sx Common, 60/40 POZ, 4% gel, 1/4# flo seal. 50 sx @ 3685', 50 sx @ 1190', 100 sx @ 790', 50 sx @ 260', 10 sx @ 40', 30 sx in Rat Hole. Job complete at 2:00 AM, September 19, 2019.

BITS:

No.	Size	Make	Model	Depth In	Depth Out	Hours
1	12-1/4	RR	RT	0	210	2.75
2	7-7/8	Varel	HE29	210	3162	47.25
3	7-7/8	Varel	HE29 RR	3162	3770	26.75

DEVIATION SURVEYS:

Deviation:	Depth:	Deviation:	Depth:
1.00*	210'	1.75*	3770'
1.25*	2855'		

PIPE STRAPS:

Difference:	depth:
2.84' long	2855'

Displace & Mudup:

begin @ 2278'
complete @ 2305'

DST #1: 2835-2855 (Topeka B)

Times: 15-30-10-out

Initial Open: Wk surf blow, died in 4 min

Final Open: No blow

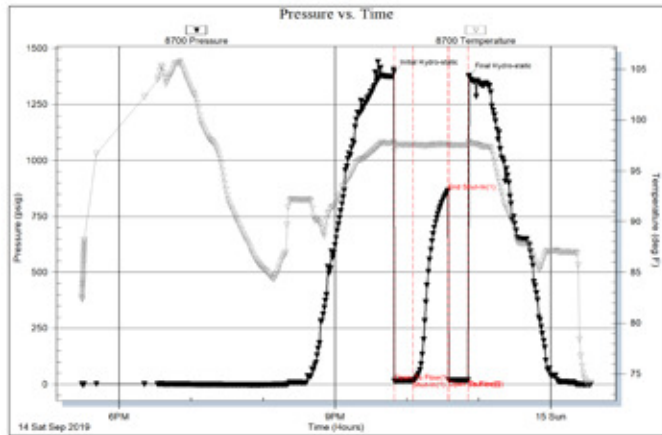
Rec: 3' mud

IHP: 1393 FHP: 1377

IFP: 15-17 FFP: 19-19

ISIP: 865 FSIP: NA

BHT: 98°F



DST #2: 3037-3099 (Tor, Lsg A)

Times: 15-30-10-out

Initial Open: Wk Surf Blow, died 2 min.

Final Open: No Blow

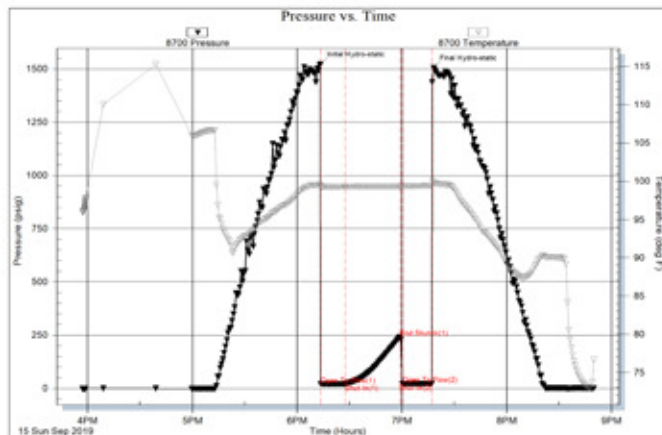
Rec: 5' mud

IHP: 1521 FHP: 1505

IFP: 20-21 FFP: 22-22

ISIP: 242 FSIP: NA

BHT: 99°F



DST #3: 3075-3162 (Lsg A,B,C,D)

Times: 15-30-10-out

Initial Open: Wk Steady 1/2" blow

Final Open: No Blow

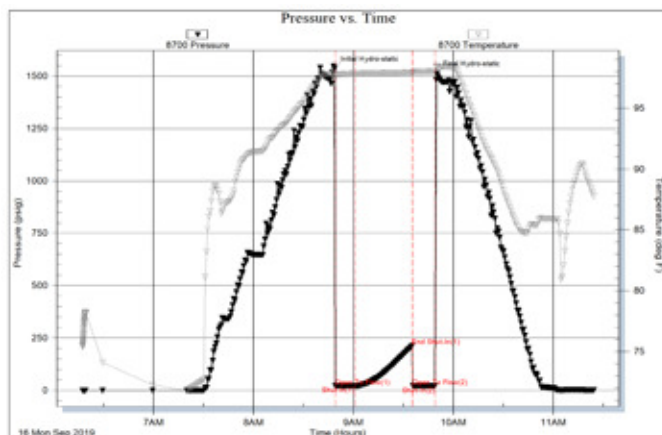
Rec: 5' mud with oil spots in tool

IHP: 1535 FHP: 1512

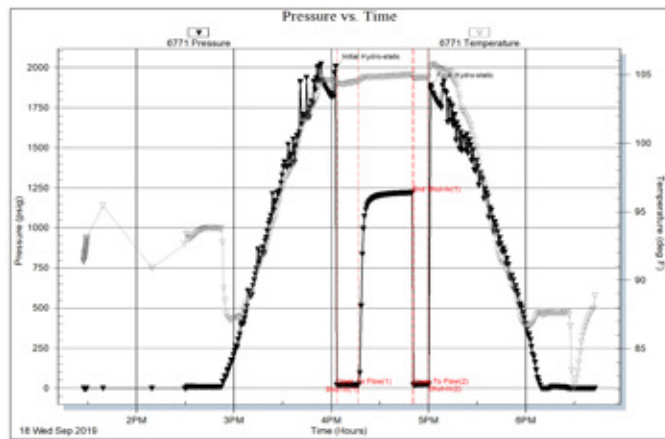
IFP: 21-20 FFP: 20-20

ISIP: 212 FSIP: NA







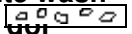



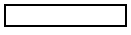








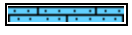
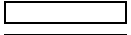





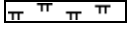

BHT: 98°F















































DST #4: 3630-3651 (Lwr Viola)
Straddle (after logs) with 119' Tailpipe
Times: 15-30-10-out
Initial Open: Wk Blow,built to 1/2" i.b.
Final Open: No Blow
Rec: 10' mud
IHP: 2005 FHP: 1888
IFP: 20-20 FFP: 21-25
ISIP: 1220 FSIP: NA
BHT: 105°F
***Straddle packer held!**



Rock Types

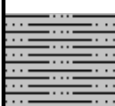
	Congl granite wash		Bent		Dol		Salt		Till
	dol ls limey		Brec		Gyp		Shale		Siltysh
	New symbol		Cht		Igne		Shcol		Shlysiltst
	Dolom ls limey		Clyst		Lmst		Shgy		Sandyls
	New symbol		Black shale/coal		Meta		Siltst		
	Anhy		Congl		Mrlst		Ss		

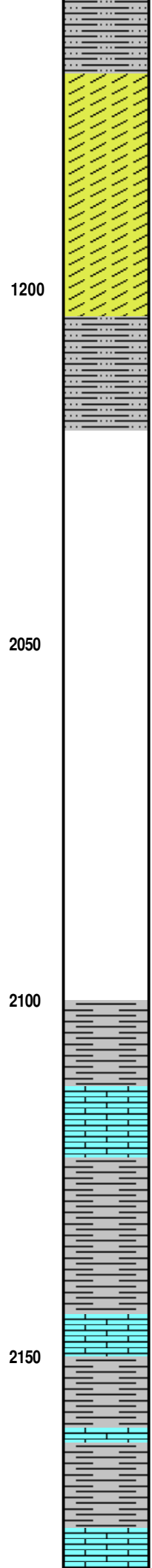
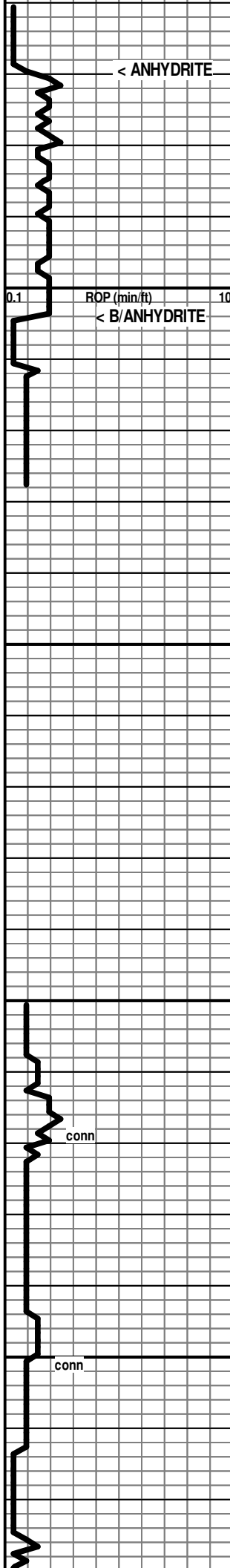
Accessories

MINERAL		Gyp	FOSSIL		Ostra		Siltstrg
	Anhy		Hvymin		Pelec		Ssstrg
	Arggrn		Kaol		Pellet		
	Arg		Marl		Pisolite	TEXTURE	
	Bent		Minxl		Plant		Boundst
	Bit		Nodule		Strom		Chalky
	Brecfrag		Phos				Cryxln
	Calc		Pyr	STRINGER			Earthy
	Carb		Salt		Anhy		Finexln
	Chtdk		Sandy		Shale		Grainst
	Chtlt		Silt		Bent		Lithogr
	Dol		Sil		Coal		Microxln
	Feldspar		Sulphur		Dol		Mudst
	Ferrpel		Tuff		Gyp		Packst
	Ferr				Ls		Wackest
	Glau				Mrst		

Other Symbols

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

ROP (min/ft) ROP (min/ft) ———	MD	Lithology	Geological Descriptions	Remarks
0.1 ROP (min/ft) 10	1100			
	50			



< ANHYDRITE

← 1169 (+714)

Anhydrite Interval, based on drill time only!

← 1204 (+679)

1200

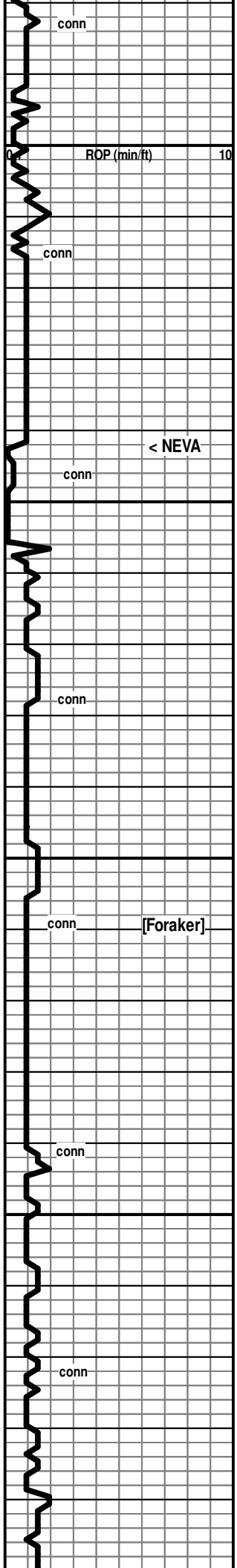
2050

2100

2150

Sh gy-dk gy-blk-red; Ls wh-gy, fn xln subchalky to pr xln por-dns, foss in pt

Abund Ls wh-cr-gy, fn xln, pr xln por to dns, foss to abund foss, some gy shales



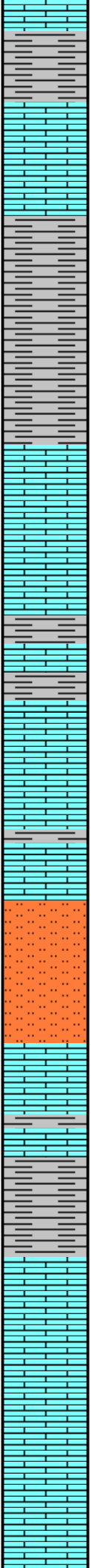
2200

2250

2300

2350

2400



As above with addition of grn shale, grn silty shale to grn shaley siltstone

60% Ls wh, fn xln, pr-fr xln por, scatt pp pores, foss; 40% Shales gy-grnish, subsilty in pt

← 2242 (-359)

Mix of: Ls wh-gy, fn xln, chalky in pt, pr xln pr to dns in pt, foss; Shales mostly gy-red

Mostly Ls, wh-cr, fn xln, pr-fr xln por with pp pores, foss to abund foss (some weath'd to gy); Shales mostly gy some red

Mostly Ls, wh-cr, fn xln, pr-fr xln por with abund pp pores, foss to abund foss (some weath'd to gy); Shales mostly gy some red

Abund siltstone wh-grn, shaley in pt; Abund Ls wh fn xln, pr-fr xln por, foss

Abund wh calc siltstone to silty Ls, some shales

Shales, gy-grnish-whiteish, silty in pt; Ls wh-gy, fn xln, pr-fr xln por, silty in pt, foss

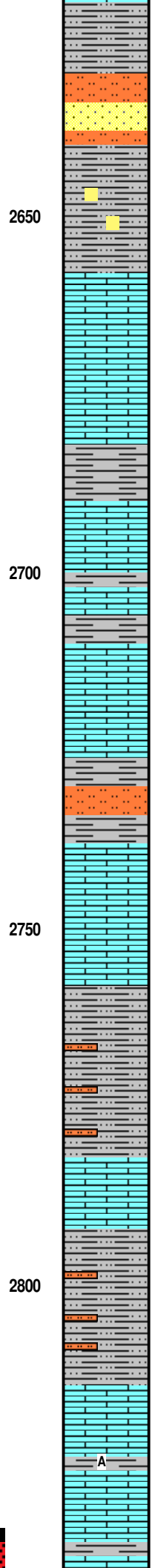
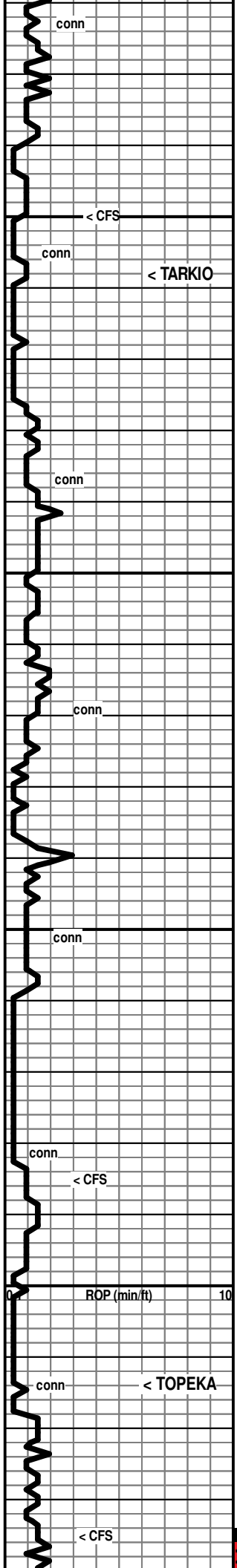
Shales, gy-grnish-whiteish, silty in pt; Ls wh-gy, fn xln, pr-fr xln por, silty in pt, mushy & chalky in pt, foss

Mostly wh-gy, silty Ls to limey siltstone, some gy silty shales

* Displace & Mudup:
begin @ 2278'
complete @ 2305'

< NEVA

[Foraker]



Siltstone/Sandstone wh-gy, vfn grn, gd sort, fr-gd fri, pr vis intergrmlr por, shaley in pt; abund gy-dk gy-bk shale, silty to mic., some loose pyr pcs

2650

7:00 AM, September 14, 2019

Mud Check, Drilling at 2650':

Vis	Wt	WL	LCM	PV	YP
49	8.8	7.2	2	12	19
Chl	Hd	pH	Solids		
3100	Tr	11.0	3.4		

← 2658 (-775)

Sh & Siltstone & Sdst pl gy-gy, silty shales to shaley siltstone to vfn sd, cem in pt, mic in pt, some Ls cr-tan-gy, vfn-fn xln, dns to pr xln por

Ls cr-tan-pl gy, fn xln, dns

2700

Ls cr-tan-gy-dk gy, fn xln, dns, foss; Shales gy-dk gy to gmish, subsilty-silty in pt, calc in pt, few loose pyr pcs

2740' spl: 90% Ls wh-cr-tan-gy, vfn-fn xln, dns to pr xln por, foss in pt, some gy shales, silty in pt

Siltstone and silty shale, wh-gy

Ls wh-cr, fn xln, dns, foss, silty in pt, scatt glauc speckling

2750

2780' spl: 85% Ls wh-cr, fn xln, subchalky in pt, pr xln por in pt, foss in pt; 15% shales gy

2785' CFS: Sh pl gy-gy, mushy to grny text, fr-gd fri, silty in pt, vfnly sdy in pt, mic, cem in pt, pr vis gnrlr por, few pcs of loose pyr

Ls r-tan-gy, fn xln, pr xln por to dns, foss

2800

Sh gy, silty in pt, mushy in pt, with shaley sitstone to mic siltstone

← 2814 (-931)

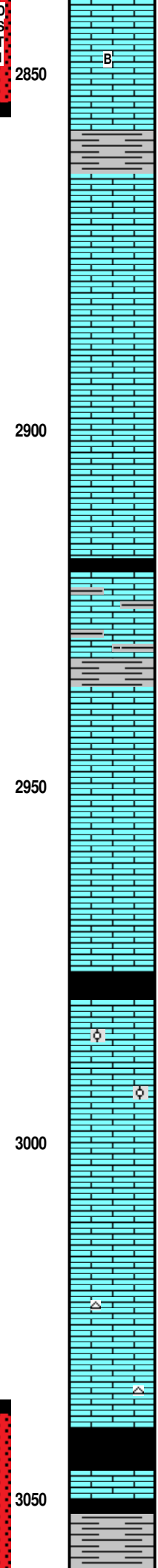
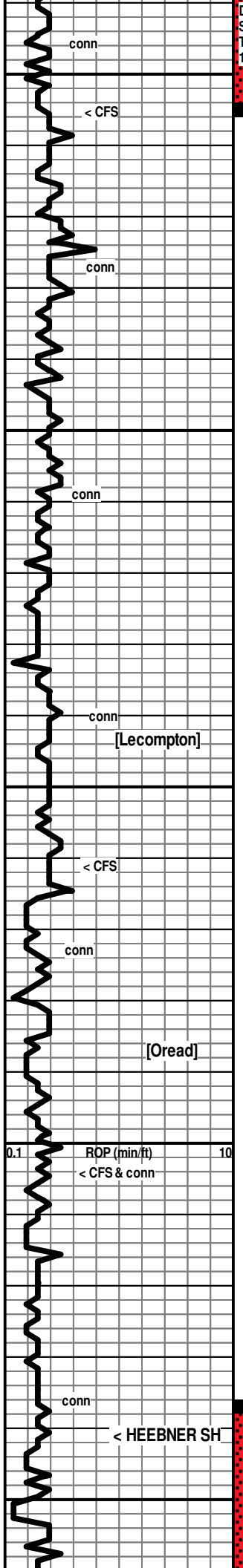
Ls cr-tan-gy with scatt white chalky patches and edges, mostly dns-some por vis xln por, foss

Ls cr-tan-gy with scatt white chalky patches and edges, mostly dns-some por vis xln por, foss

Sh gy

DST #1: 2835-2855 (Topeka B)

Times: 15-30-10-out



Ls cr-tan-gy, vfn-fn xln, dns in pt, low % pcs with pr vis xln por and scatt pp pores, subchalky in pt, foss
 [Mod Odor, scatt dull-mod fluor, low-mod % of pcs with spotty brn stn-patchy brn stn in dry, with sli show of gassy FO on brk]

Sh gy-grnish

Ls cr-gy, fn xln, dns, si foss in pt

Ls cr-tan-gy-dk gy, vfn-fn xln, dns

Ls cr-tan-gy, fn xln, pr xln por to dns

Ls wh-cr, fn xln, pr-fr xln por in pt, subchalky in pt, abund foss

Sh black, carb (in 2940' spl)

Mostly Ls wh-cr, vfn-fn xln, chalky in pt, pr xln por in pt to dns, foss in pt; some dk shaley ls

Ls wh-cr, fn xln, pr xln por to dns, foss to abund foss

[Lecompton]

Ls wh-cr, fn xln, pr xln por with scatt pp pores, foss, ool in pt with scatt interool pores and weathering

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

< CFS

Ls cr-tan, fn xln, fr-gd xln por in pt, foss

Sh back, carb

Ls wh-cr-tan, fn xln, dns in pt, chalky in pt, pr-fr xln por in pt with scatt pp pores, foss to abund foss, micro-ool in pt

[Oread]

0.1 ROP (min/ft) 10
 < CFS & conn

Ls wh-cr-gy, fn xln, chalky in pt, dns in pt, some pr xln por, foss, scatt reddish brn flakes and bits

Ls wh-cr-gy, fn xln, chalky in pt, dns in pt, some pr xln por, foss, scatt reddish brn flakes and bits, chert:gy, fresh, opa, sub grainy text in pt, foss

conn

< HEEBNER SH

3041 (-1158)

Sh black, carb

Ls wh-cr,fn xln, dns to chalky

Sh gy-grnish, calc in pt

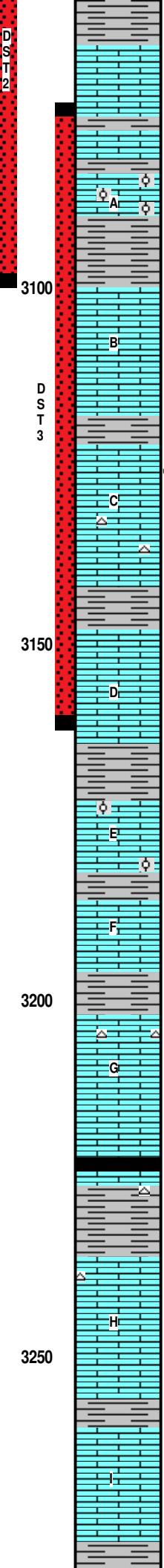
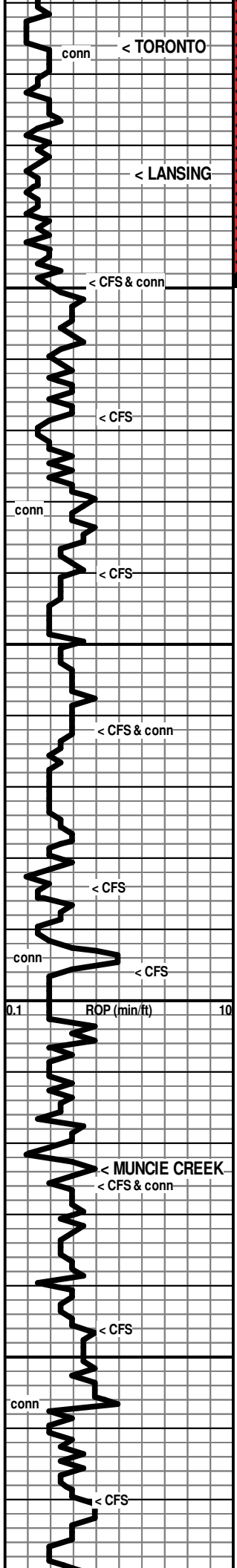
Times: 15-30-10-out
 Initial Open: Wk surf blow, died in 4 min
 Final Open: No blow
 Rec: 3' mud
 IHP: 1393 FHP: 1377
 IFP: 15-17 FFP: 19-19
 ISIP: 865 FSIP: NA
 BHT: 98°F

Mud Check, CFS at 2961':
 Vis Wt WL LCM PV YP
 44 9.4 8.0 1 12 17
 Chl Hd pH Solids
 2700 Tr 11.0 7.7

7:00 AM, September 15, 2019

* Add Premix!

DST #2: 3037-3099 (Tor, Lsg A)
 Times: 15-30-10-out
 Initial Open: Wk Surf Blow, died 2 min.
 Final Open: No Blow
 Rec: 5' mud
 IHP: 1521 FHP: 1505
 IFP: 20-21 FFP: 22-22
 ISIP: 242 FSIP: NA
 BHT: 99°F



3066 (-1183)
 Ls cr, fn xln, dns to Rr pr xln por, foss-abund foss
 Show Descr. →

3084 (-1201)
 Ls wh-cr, fn xln, chalky in pt, scatt patchy pr xln por with scatt interool pores
 Show Descr. →

3100
 Sh gy
 Ls cr, fn xln, dns, sli foss in pt

3150
 Ls cr-gy, vfn-fn xln, dns with a few pcs with patch of pr xln por, foss
 [No Odor, No fluor, found a few pcs total with spot of stn, NSFO]
 Sh gy-black
 Ls cr-tan-gy, fn xln, some subchalky, mostly dns with Rr patches of pr xln por, foss in pt
 [No Odor, V Rr spots of dull fluor, few pcs total with scant trace of brn microdrops of FO]
 Ls cr-tan, fn xln, mostly dns with Rr pr xln por, foss, chert: fresh, cr-tan, subtr-transl, foss
 [No Odor, V Rr patch of dull fluor, trace of spotty stn, a few pcs with patch of lt stn & Tr show FO]
 Sh gy-grnish

3200
 Ls wh-cr, vfn-fn xln, mix of dns & firm to softer & subchalky, foss in pt

3223 (-1340)
 Sh black, carb
 Ls wh-cr-tan, fn xln, chalky in pt, dns in pt, foss, some chert: fresh, tan, transl
 Ls wh-cr-tan-pl gy, vfn-fn xln, subchalky to dns, sli foss in pt

3250
 Sh gy-grn
 Ls wh-cr-tan, fn-vfn xln, subchalky-chalky in pt, dns in pt, sli foss in pt, Rr scatt reddish shale/organic specks; some shale, gy-grnish, subsilty text in pt

Sh gy
 Ls wh-cr-tan, fn-vfn xln, subchalky-chalky in pt, dns in pt, sli foss in pt; some gm-grnish gy silty/mic shale; some black shale

Sh gy-black

[No Odor, Rr pcs with spotty dull fluor, with lt tan spots & sm patches of stn, with spots of tan-brn microdrops of DO? vis on crush, no FO on crush]

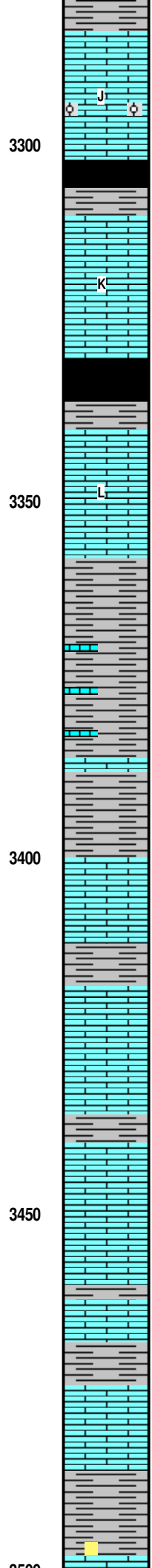
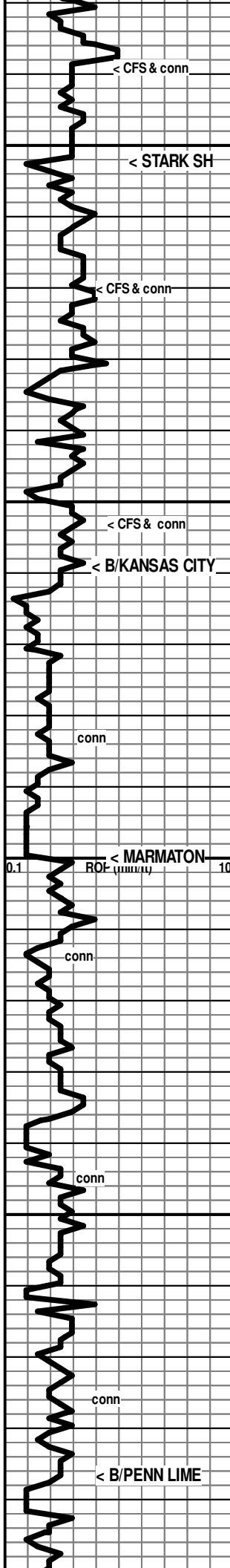
[No Odor, scatt spotty-patchy dull fluor, mod % pcs with spotty-patchy tan-brn stn, with tr-v sli shows of brn, vsli gassy, NVL oil & FO on crush]

DST #3: 3075-3162 (Lsg A,B,C,D)
 Times: 15-30-10-out
 Initial Open: Wk Steady 1/2" blow
 Final Open: No Blow
 Rec: 5' mud with oil spots in tool
 IHP: 1535 FHP: 1512
 IFP: 21-20 FFP: 20-20
 ISIP: 212 FSIP: NA
 BHT: 98°F

Mud Check, TOOH for DST3 at 3162':

Vis	Wt	WL	LCM	PV	YP
54	9.2	7.6	1	12	19
Chl	Hd	pH	Solids		
2700	Tr	11.0	6.3		

7:00 AM, September 16, 2019



Sh gy-grnish

3310' spl: Ls wh-cr, fn xln, chalky in pt, mostly dns, Rr scatt pr xln por, foss, some fine ool
[No Odor, No fluor, found a few pcs total with a few scant spots of brn stain, NSFO]

3300 ← 3302 (-1419)
 Sh black, carb (mod am't in 3320' spl)
 Sh gy-grn, foss in pt

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

← 3359 (-1476)
 Sh gy-dk gy-grnish gy-grn, silty in pt, mic in pt

3350' spl: abund Shale gy-dk gy-black, carb in pt; Ls as above

3360' spl: 90% Ls wh-cr-gy, fn xln, chalky in pt, dns in pt, foss (some weath'd to gy)

3390' spl: 60% Shales, gy-dk gy-red-grnish, mushy to subfirm, silty & mic in pt; 40% Ls wh-cr-tan, fn xln, chalky to dns, foss in pt

3400' spl: 85% Shales, gy-dk gy-red-grnish, mushy to subfirm, silty & mic in pt; 15% Ls wh-cr-tan, fn xln, chalky to dns, foss in pt

Shale mostly gy-dk gy-black

← 3400 (-1517)

Ls wh-cr, fn xln, chalky in pt, dns in pt, grainy in pt

Sh gy-grn-red, silty in pt

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

Sh gy-grn-red-brn, silty in pt

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

3450

Sh gy-red-grn-maroon, silty in pt

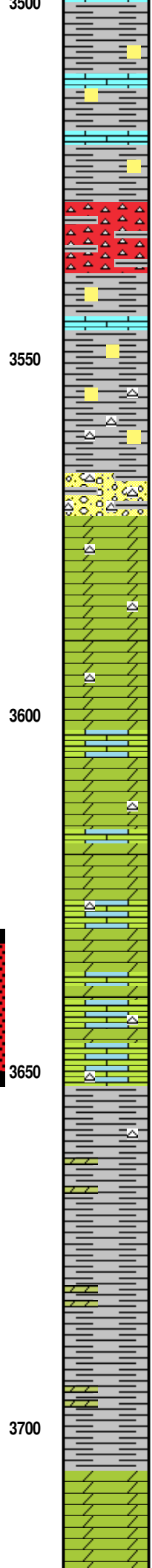
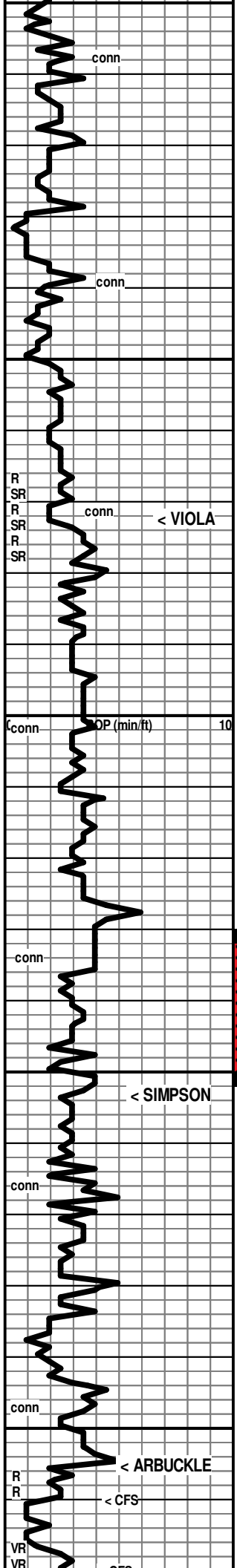
Ls wh-cr-tan, fn xln, chalky in pt, dns in pt, grainy in pt, foss in pt

← 3487 (-1604)
 Sh red-gy-grn, mushy to soft (washes deep red)

7:00 AM, September 17, 2019

Mud Check, Drlg @ 3358':

Vis	Wt	WL	LCM	PV	YP
50	9.3	7.6	1	12	19
Chl	Hd	pH	Solids		
2600	40	10.0	7.0		



3500
90% Sh red-grn-gy with some yellow, soft to subfirm, silty to subwaxy, sdy in pt; 10% Ls wh-cr, grainy, dns

Chert: fresh to subgrainy text, cr-tan-peach, subopaq-subtransl, foss in pt; abund shale as above with some mushy (washes pl red)

Sh mostly red, some gy-grn, silty-sdy, mushy to soft (washes deep red)

Sh mostly red, some gy-grn, silty-sdy, mushy to soft, some chert: fresh to subgrainy, cr-tan-peach, (washes deep red)

Mix of: Sd fn-md-crs, pr sort, subrd-subanglr, abund red shaley, fresh cherts, red mushy shale (washes red)
← 3572 (-1689)

Dol cr-pl gy, fn xln, sucrosic to suabsucr., mostly pr vis xln por, some fr xln por, scatt vugs, cherty

Dol wh-cr, fn xln, subsucr to sucrosic, pr vis xln por, Rr chert

Dol & Dol Ls wh-cr, fn xln, chalky in pt, sucr in pt, pr-fr xln por with fresh chert, cr-tan, transl

Dol & Dol Ls wh-cr, fn xln, chalky in pt, sucr in pt, pr-fr xln por with fresh chert, cr-tan, transl

3660' spl: Dol & Dol Ls wh-cr, fn xln, chalky in pt, sucr in pt, pr-fr xln por with fresh chert, cr-tan, transl; and, some pl grn-grn shale with yell-gy shales, foss in pt, silty to subwaxy text in pt

3670' spl: As above with less shales
← 3653 (-1770)

Dol & Dol Ls wh-cr, fn xln, chalky in pt, sucr in pt, pr-fr xln por with fresh chert, cr-tan, transl; and, some pl grn-grn shale with yell-gy shales, foss in pt, silty to subwaxy text in pt

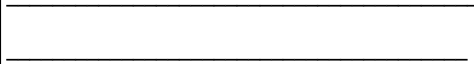
3690' spl: Abund grn shale, mostly mushy, some subwaxy to subsilty; some dol as above

3700' spl: Abund grn shale, mostly mushy, some subwaxy to subsilty; some dol as above

3710' spl: Abund Dol, tan-gy, fn xln, subsucrosic-sucr, dns to pr-fr xln por; mixed with shales as above
← 3705 (-1822)

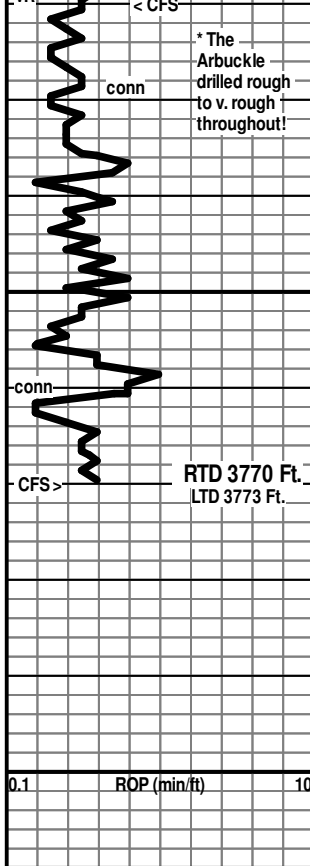
3710' cfs: Abund Dol, cr-tan, fn xln, sucrosic, pr-fr xln por, scatt vugs; Some grn waxy shale, some loose pyr pcs

3720' cfs: Dol cr, fn-md xln, sucr-rhombic, pr-fr-gd xln por, abund vuas. scatt ovr



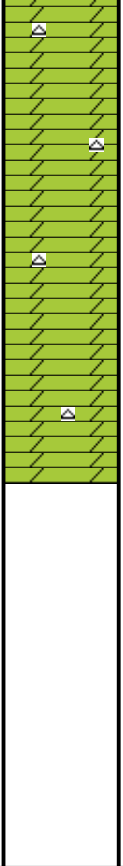
D S T 4

S T R A D D L E



3750

3800



Dol cr, fn xln, sucrr-subsucrosic, fr-gd xln por, vuggy in pt, chert: fresh, cr, transl-subtransl

Dol cr, fn xln, sucrr-subsucrosic, fr-gd xln por, vuggy in pt, scatt pyritic, chert: fresh, cr, transl-subtransl

Dol cr, fn xln, sucrr-subsucrosic, some rhombic, fr-gd xln por-some dns., vuggy in pt, scatt pyritic, chert: fresh, cr, transl-subtransl

RTD @ 3770 ft., at 5:00 am, September 18, 2019!

Mud Check, Logging @ 3770':
 Vis Wt WL LCM PV YP
 50 9.8 11.2 1 10 20
 Chl Hd pH Solids
 4000 160 7.5 12.1

COPELAND

Acid & Cement

BURRTON, KS ♦ GREAT BEND, KS
 (620) 463-5161 (620) 793-3366
 FAX (620) 463-2104 FAX (620) 793-3536

POST OFFICE BOX 438
 HAYSVILLE, KS 67060
 (316) 524-1225
 (316) 524-1027 FAX

Invoice

Page: 1

INVOICE NUMBER:
C60005-IN

BILL TO:
CARMEN SCHMITT, INC.
PO BOX 47
GREAT BEND, KS 67530

LEASE: BRUMMER

DATE	ORDER	SALESMAN	ORDER DATE	PURCHASE ORDER	SPECIAL INSTRUCTIONS	
09/13/2019	60005		09/12/2019	BRUMMER	NET 30	
QUANTITY	U/M	ITEM NO./DESCRIPTION		D/C	PRICE	EXTENSION
45.00	MI	MILEAGE CEMENT PUMP TRUCK		25.00	4.00	135.00
1.00	EA	PUMP CHARGE SURFACE		25.00	1,100.00	825.00
195.00	SK	60/40 POZ MIX 2% GEL		25.00	11.25	1,645.31
10.00	SK	CALCIUM CHLORIDE		25.00	40.00	300.00
205.00	EA	BULK CHARGE		25.00	1.25	192.19
405.90	MI	BULK TRUCK - TON MILES		25.00	1.10	334.87
<p><i>7/10/43</i> <i>195/5.0001</i> <i>Well Site</i> <i>Surface Cement</i></p>						
REMIT TO:		COP		Net Invoice:		3,432.37
P.O. BOX 438 HAYSVILLE, KS 67060		FUEL SURCHARGE IS NOT TAXABLE AND IS ADDED TO MILEAGE, PUMP AND OR DELIVERY CHARGES ONLY.		OSBCO Sales Tax:		274.59
RECEIVED BY		NET 30 DAYS		Invoice Total:		3,706.96

There will be a charge of 1.5% "per month" (18% annual rate) on all accounts over 30 days pas

Copeland Acid & Cement is a subsidiary of Gressel Oil Field Service

Gressel Oil Field Service reserves a security interest in the goods sold until the same are paid for in full and reserve all the rights of a secured party under the Uniform Commercial Code.



DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt, Inc.**

PO Box 47
Great Bend, KS 67530

ATTN: Brad Rine

Brummer #1

4-8S-15W Osborne,KS

Start Date: 2019.09.14 @ 17:29:01

End Date: 2019.09.15 @ 00:33:22

Job Ticket #: 64494 DST #: 1

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

Printed: 2019.09.19 @ 09:29:55



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

4-8S-15W Osborne, KS

Brummer #1

Job Ticket: 64494

DST#: 1

Test Start: 2019.09.14 @ 17:29:01

GENERAL INFORMATION:

Formation: **Topeka**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:49:22

Time Test Ended: 00:33:22

Test Type: Conventional Bottom Hole (Initial)

Tester: Brannan Lonsdale

Unit No: 73

Interval: 2835.00 ft (KB) To 2855.00 ft (KB) (TVD)

Reference Elevations: 1883.00 ft (KB)

Total Depth: 2855.00 ft (KB) (TVD)

1875.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8700 Outside

Press@RunDepth: 16.89 psig @ 2836.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.09.14 End Date: 2019.09.15

Last Calib.: 2019.09.15

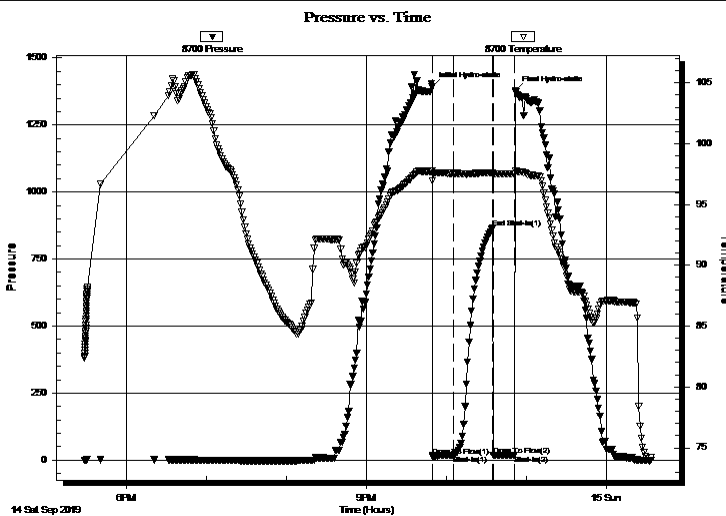
Start Time: 17:29:02 End Time: 00:33:22

Time On Btm: 2019.09.14 @ 21:49:07

Time Off Btm: 2019.09.14 @ 22:51:37

TEST COMMENT: 15- IF- Surface blow died 4 mins
 30- IS- No blow
 10- FF- No blow . Pulled tool

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1393.07	97.78	Initial Hydro-static
1	14.51	96.94	Open To Flow (1)
16	16.89	97.56	Shut-In(1)
46	865.16	97.62	End Shut-In(1)
46	19.23	97.46	Open To Flow (2)
62	18.64	97.54	Shut-In(2)
63	1377.18	97.79	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3.00	M	0.01

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

4-8S-15W Osborne, KS
Brummer #1
Job Ticket: 64494 **DST#: 1**
Test Start: 2019.09.14 @ 17:29:01

Tool Information

Drill Pipe:	Length: 2783.00 ft	Diameter: 3.82 inches	Volume: 39.45 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 57.00 ft	Diameter: 2.25 inches	Volume: 0.28 bbl	Weight to Pull Loose: 32000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial 29000.00 lb
Depth to Top Packer:	2835.00 ft			Final 29000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	20.00 ft			
Tool Length:	48.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			2808.00	
Shut In Tool	5.00			2813.00	
Hydraulic tool	5.00			2818.00	
Jars	5.00			2823.00	
Safety Joint	3.00			2826.00	
Packer	5.00			2831.00	28.00 Bottom Of Top Packer
Packer	4.00			2835.00	
Stubb	1.00			2836.00	
Recorder	0.00	6771	Inside	2836.00	
Recorder	0.00	8700	Outside	2836.00	
Perforations	16.00			2852.00	
Bullnose	3.00			2855.00	20.00 Bottom Packers & Anchor

Total Tool Length: 48.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Carmen Schmitt, Inc.

4-8S-15W Osborne, KS

PO Box 47
Great Bend, KS 67530

Brummer #1

Job Ticket: 64494

DST#: 1

ATTN: Brad Rine

Test Start: 2019.09.14 @ 17:29:01

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: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3100.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
3.00	M	0.015

Total Length: 3.00 ft Total Volume: 0.015 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

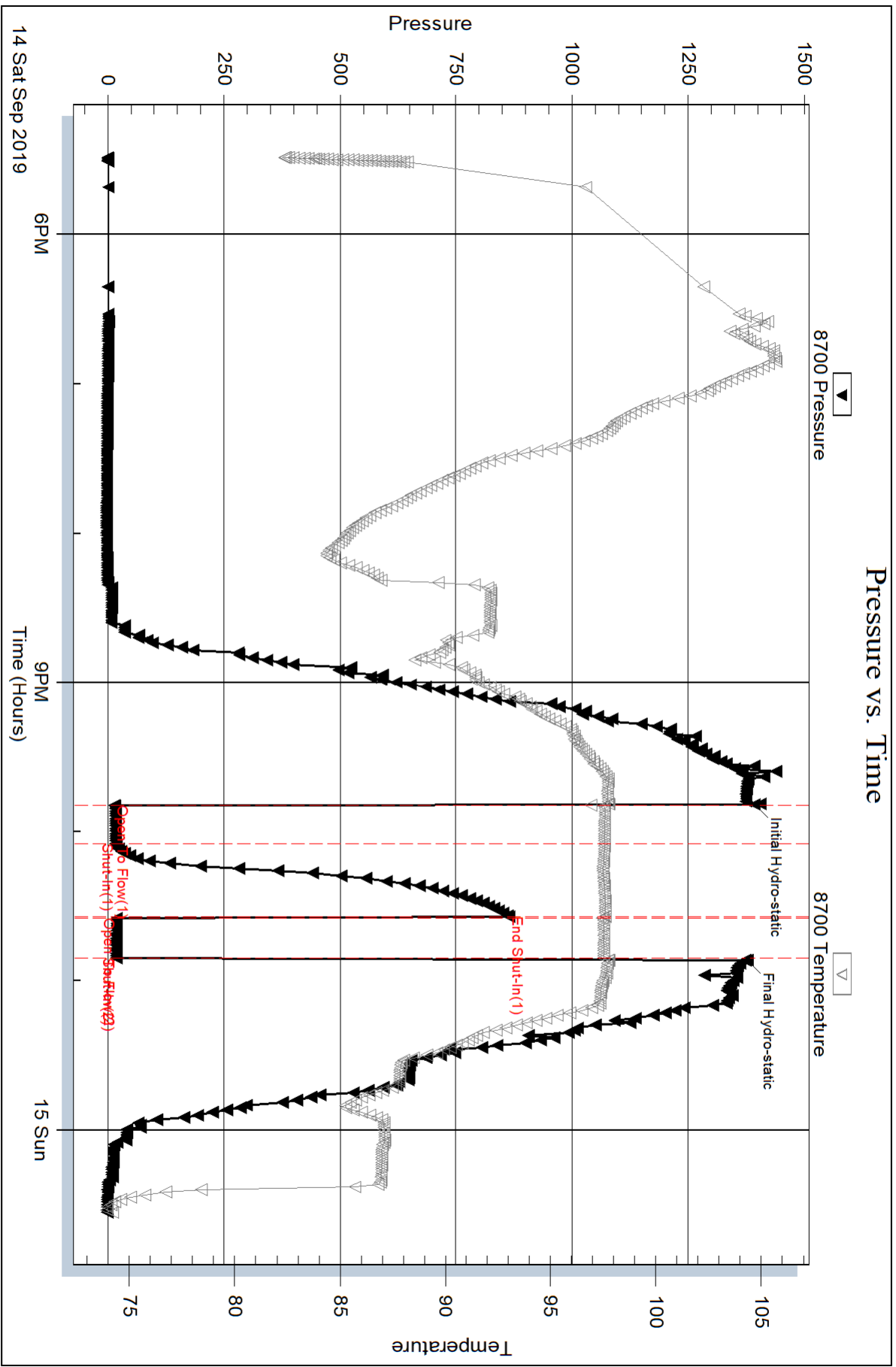
Recovery Comments:

Serial #: 8700

Outside Carmen Schmitt, Inc.

Bummer #1

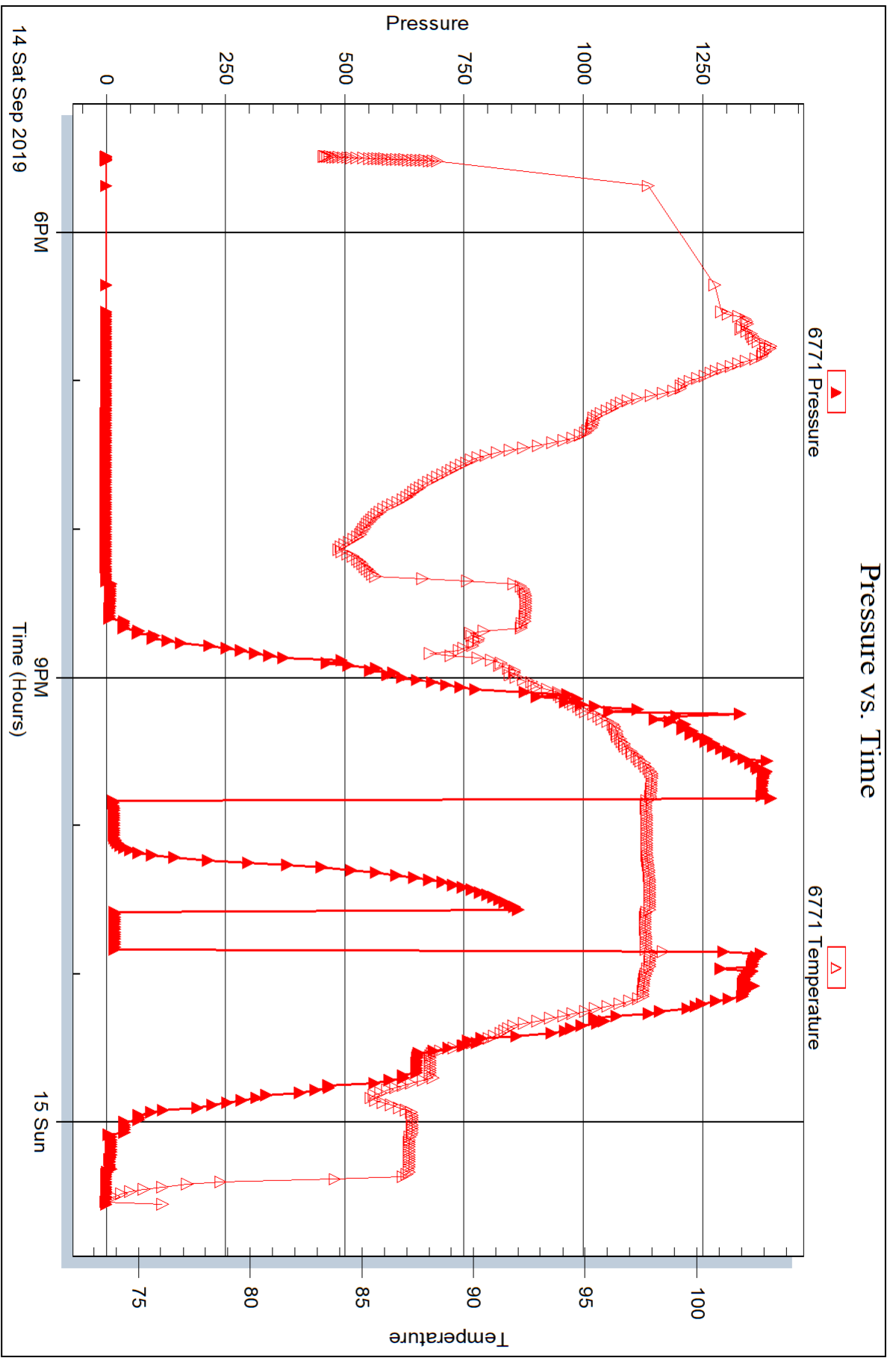
DST Test Number: 1

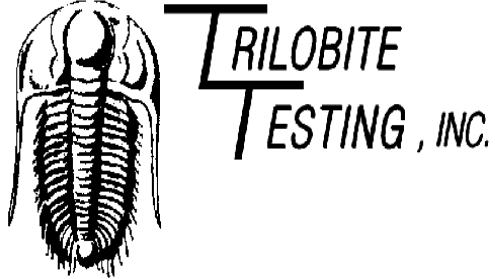


Triobite Testing, Inc

Ref. No: 64494

Printed: 2019.09.19 @ 09:29:56





DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt, Inc.**

PO Box 47
Great Bend, KS 67530

ATTN: Brad Rine

Brummer #1

4-8S-15W Osborne,KS

Start Date: 2019.09.15 @ 15:57:04

End Date: 2019.09.15 @ 20:50:10

Job Ticket #: 64495 DST #: 2

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

Printed: 2019.09.19 @ 09:27:34



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

4-8S-15W Osborne, KS
Brummer #1
 Job Ticket: 64495 **DST#: 2**
 Test Start: 2019.09.15 @ 15:57:04

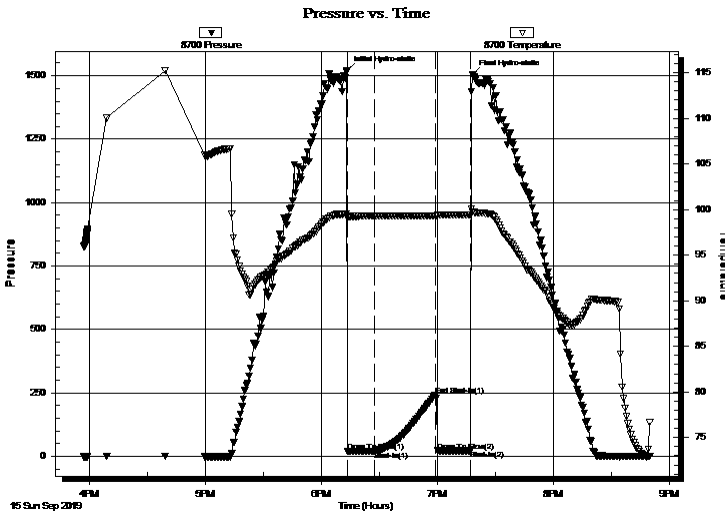
GENERAL INFORMATION:

Formation: **Toronto - LKC "A"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 18:13:25
 Time Test Ended: 20:50:10
 Interval: **3037.00 ft (KB) To 3099.00 ft (KB) (TVD)**
 Total Depth: 3099.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Brannan Lonsdale
 Unit No: 73
 Reference Elevations: 1883.00 ft (KB)
 1875.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8700 Outside
 Press@RunDepth: 20.83 psig @ 3038.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2019.09.15 End Date: 2019.09.15 Last Calib.: 2019.09.15
 Start Time: 15:57:05 End Time: 20:50:10 Time On Btm: 2019.09.15 @ 18:13:10
 Time Off Btm: 2019.09.15 @ 19:18:10

TEST COMMENT: 15- IF- Surface blow died 2 mins
 30- IS- No blow
 10- FF- No blow Pulled tool

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1520.81	99.53	Initial Hydro-static
1	20.11	99.04	Open To Flow (1)
15	20.83	99.31	Shut-In(1)
46	241.83	99.33	End Shut-In(1)
47	21.92	99.39	Open To Flow (2)
64	22.22	99.41	Shut-In(2)
65	1504.62	99.75	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	M	0.07

* Recovery from multiple tests

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

4-8S-15W Osborne, KS
Brummer #1
Job Ticket: 64495 **DST#: 2**
Test Start: 2019.09.15 @ 15:57:04

Tool Information

Drill Pipe:	Length: 3036.00 ft	Diameter: 3.82 inches	Volume: 43.04 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 32000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial 29000.00 lb
Depth to Top Packer:	3037.00 ft			Final 29000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	62.00 ft			
Tool Length:	90.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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

Change Over Sub	1.00			3010.00	
Shut In Tool	5.00			3015.00	
Hydraulic tool	5.00			3020.00	
Jars	5.00			3025.00	
Safety Joint	3.00			3028.00	
Packer	5.00			3033.00	28.00 Bottom Of Top Packer
Packer	4.00			3037.00	
Stubb	1.00			3038.00	
Recorder	0.00	6771	Inside	3038.00	
Recorder	0.00	8700	Outside	3038.00	
Perforations	24.00			3062.00	
Change Over Sub	1.00			3063.00	
Drill Pipe	32.00			3095.00	
Change Over Sub	1.00			3096.00	
Bullnose	3.00			3099.00	62.00 Bottom Packers & Anchor

Total Tool Length: 90.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Carmen Schmitt, Inc.

4-8S-15W Osborne, KS

PO Box 47
Great Bend, KS 67530

Brummer #1

Job Ticket: 64495

DST#: 2

ATTN: Brad Rine

Test Start: 2019.09.15 @ 15:57:04

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: 44.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2700.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	M	0.071

Total Length: 5.00 ft Total Volume: 0.071 bbl

Num Fluid Samples: 0

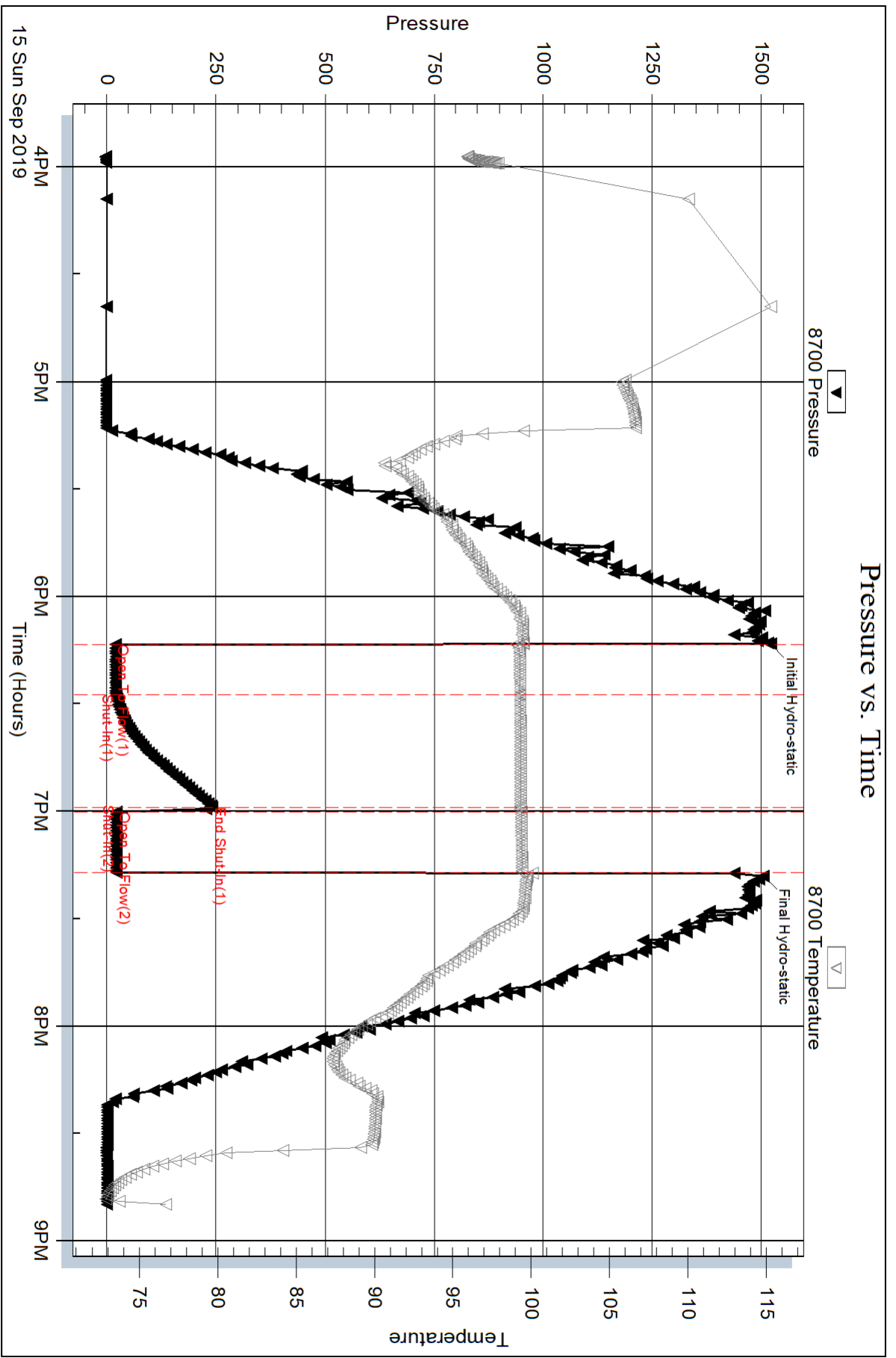
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



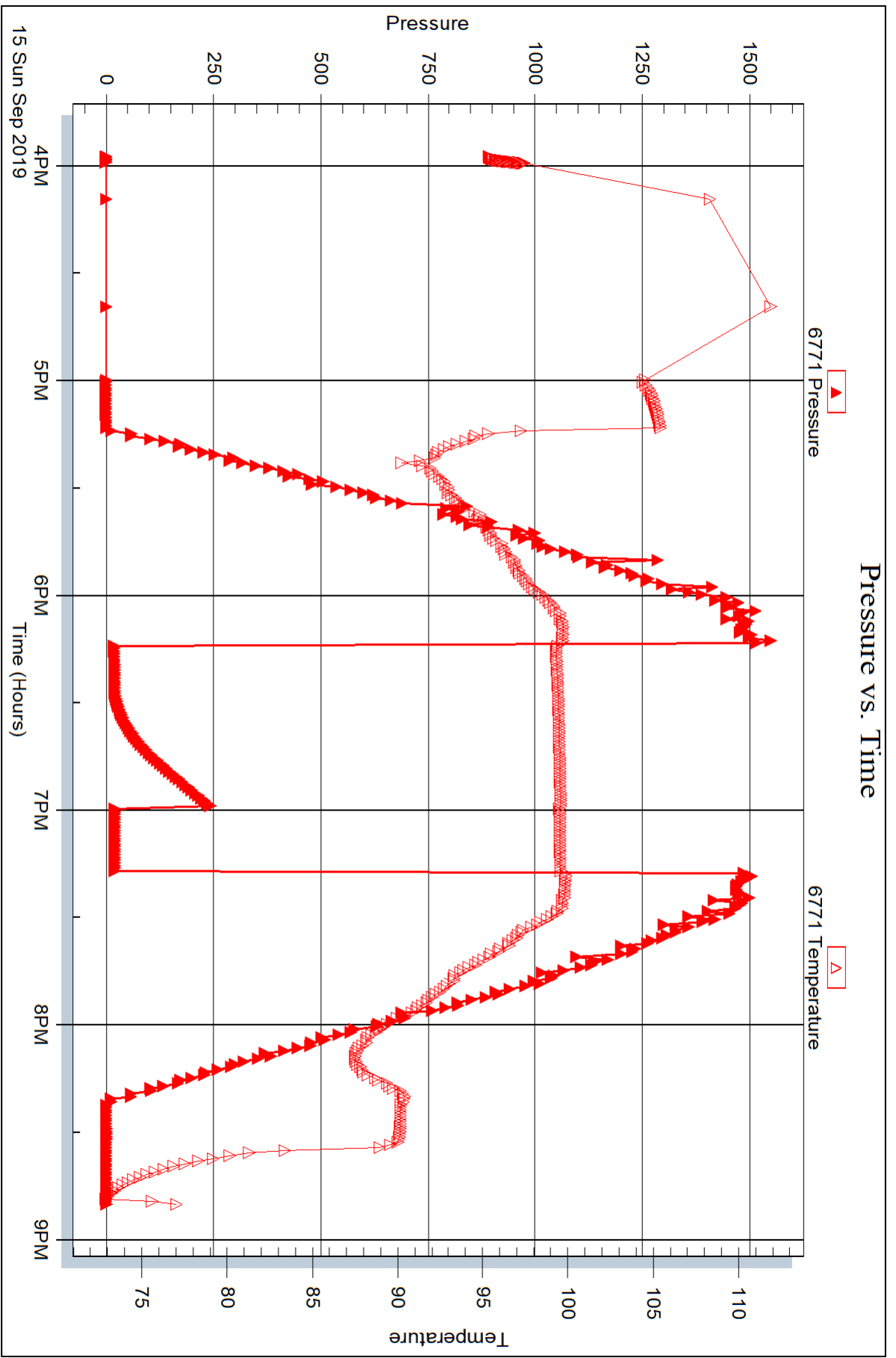
Serial #: 6771

Inside

Carmen Schmitt, Inc.

Bummer #1

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt, Inc.**

PO Box 47
Great Bend, KS 67530

ATTN: Brad Rine

Brummer #1

4-8S-15W Osborne,KS

Start Date: 2019.09.16 @ 06:17:19

End Date: 2019.09.16 @ 11:24:25

Job Ticket #: 64496 DST #: 3

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

Printed: 2019.09.19 @ 09:25:58



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

4-8S-15W Osborne, KS

Brummer #1

Job Ticket: 64496

DST#: 3

Test Start: 2019.09.16 @ 06:17:19

GENERAL INFORMATION:

Formation: **LKC "A-D"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 08:48:55
 Time Test Ended: 11:24:25
 Interval: **3075.00 ft (KB) To 3162.00 ft (KB) (TVD)**
 Total Depth: 3162.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Brannan Lonsdale
 Unit No: 73
 Reference Elevations: 1883.00 ft (KB)
 1875.00 ft (CF)
 KB to GR/CF: 8.00 ft

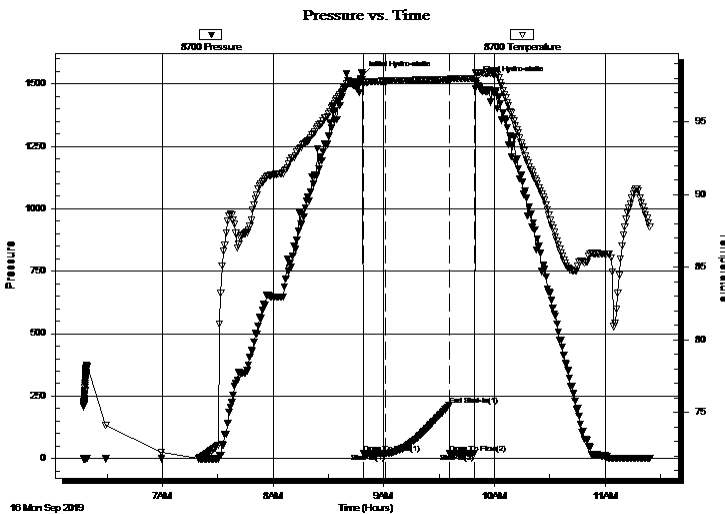
Serial #: 8700

Outside

Press@RunDepth: 20.32 psig @ 3076.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2019.09.16 End Date: 2019.09.16 Last Calib.: 2019.09.16
 Start Time: 06:17:20 End Time: 11:24:25 Time On Btm: 2019.09.16 @ 08:48:25
 Time Off Btm: 2019.09.16 @ 09:50:10

TEST COMMENT: 15- IF- 0.50" blow
 30- IS- No blow
 10- FF- No blow Pulled tool

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1534.60	97.93	Initial Hydro-static
1	20.90	97.57	Open To Flow (1)
13	20.32	97.83	Shut-In(1)
47	212.04	97.92	End Shut-In(1)
48	20.26	97.87	Open To Flow (2)
61	20.17	98.01	Shut-In(2)
62	1511.95	98.42	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	M	
0.00	Oil spots in tool	

* Recovery from multiple tests

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

4-8S-15W Osborne, KS
Brummer #1
Job Ticket: 64496 **DST#: 3**
Test Start: 2019.09.16 @ 06:17:19

Tool Information

Drill Pipe:	Length: 3068.00 ft	Diameter: 3.82 inches	Volume: 43.49 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: ft	Diameter: 2.25 inches	Volume: - bbl	Weight to Pull Loose: 36000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial 29000.00 lb
Depth to Top Packer:	3075.00 ft			Final 29000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	87.00 ft			
Tool Length:	115.00 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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Change Over Sub	1.00			3048.00	
Shut In Tool	5.00			3053.00	
Hydraulic tool	5.00			3058.00	
Jars	5.00			3063.00	
Safety Joint	3.00			3066.00	
Packer	5.00			3071.00	28.00 Bottom Of Top Packer
Packer	4.00			3075.00	
Stubb	1.00			3076.00	
Recorder	0.00	6771	Inside	3076.00	
Recorder	0.00	8700	Outside	3076.00	
Perforations	17.00			3093.00	
Change Over Sub	1.00			3094.00	
Drill Pipe	64.00			3158.00	
Change Over Sub	1.00			3159.00	
Bullnose	3.00			3162.00	87.00 Bottom Packers & Anchor

Total Tool Length: 115.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Carmen Schmitt, Inc.

4-8S-15W Osborne, KS

PO Box 47
Great Bend, KS 67530

Brummer #1

Job Ticket: 64496

DST#: 3

ATTN: Brad Rine

Test Start: 2019.09.16 @ 06:17:19

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: 44.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2700.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
5.00	M	
0.00	Oil spots in tool	

Total Length: 5.00 ft

Total Volume: bbl

Num Fluid Samples: 0

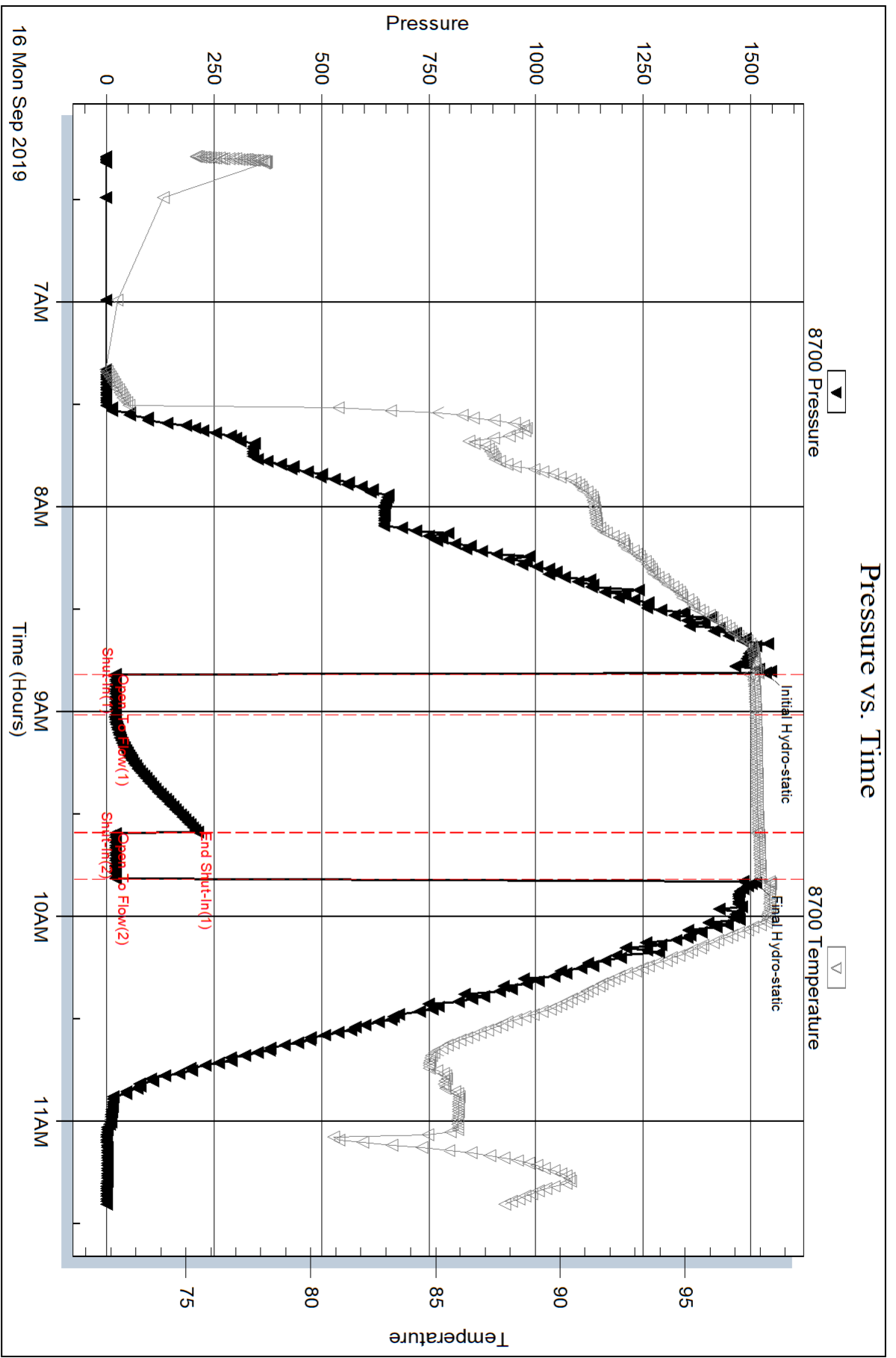
Num Gas Bombs: 0

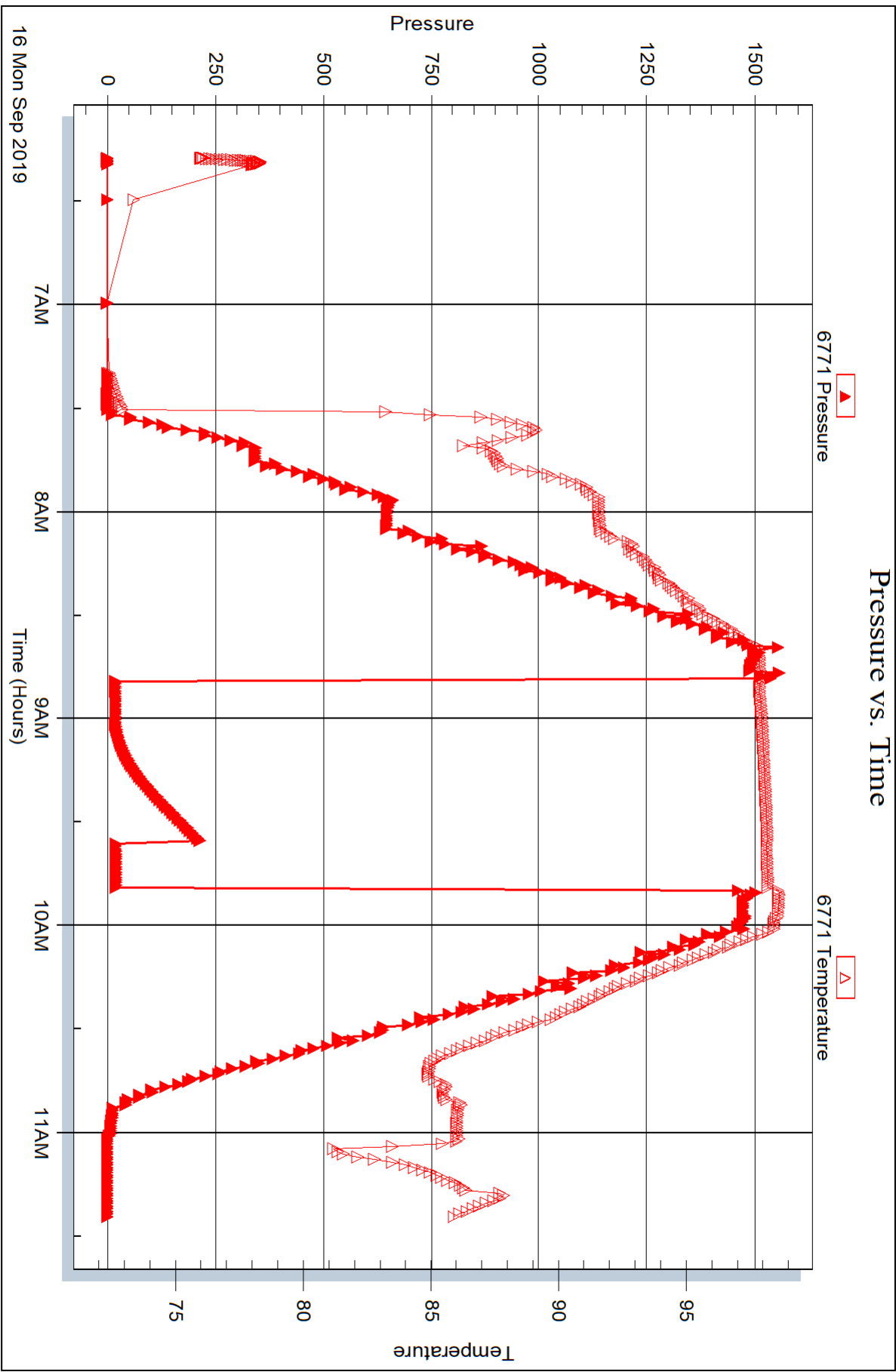
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt, Inc.**

PO Box 47
Great Bend, KS 67530

ATTN: Brad Rine

Brummer #1

4-8S-15W Osborne,KS

Start Date: 2019.09.18 @ 13:27:17

End Date: 2019.09.18 @ 18:42:53

Job Ticket #: 64497 DST #: 4

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

Printed: 2019.09.19 @ 09:25:28

Carmen Schmitt, Inc. 4-8S-15W Osborne,KS Brummer #1 DST # 4 Viola 2019.09.18



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

4-8S-15W Osborne, KS

Brummer #1

Job Ticket: 64497

DST#: 4

Test Start: 2019.09.18 @ 13:27:17

GENERAL INFORMATION:

Formation: **Viola**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 16:03:08
 Time Test Ended: 18:42:53
 Interval: **3630.00 ft (KB) To 3651.00 ft (KB) (TVD)**
 Total Depth: 3770.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Straddle (Reset)
 Tester: Brannan Lonsdale
 Unit No: 73
 Reference Elevations: 1883.00 ft (KB)
 1875.00 ft (CF)
 KB to GR/CF: 8.00 ft

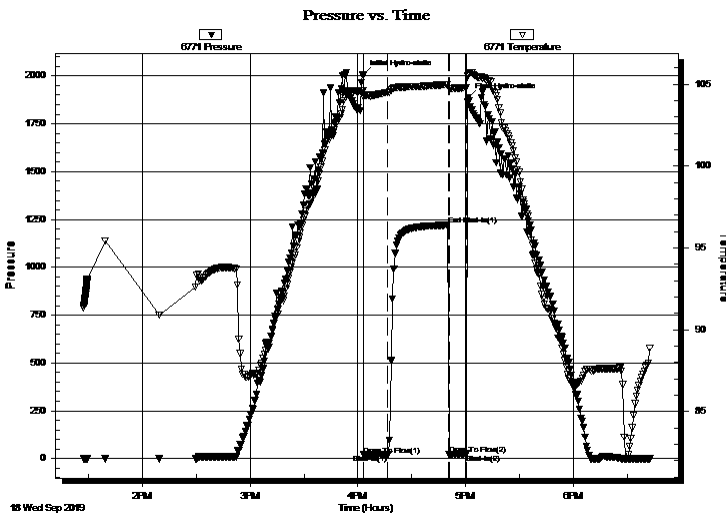
Serial #: 6771

Inside

Press@RunDepth: 20.01 psig @ 3631.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2019.09.18 End Date: 2019.09.18 Last Calib.: 2019.09.18
 Start Time: 13:27:18 End Time: 18:42:53 Time On Btm: 2019.09.18 @ 16:02:53
 Time Off Btm: 2019.09.18 @ 17:01:23

TEST COMMENT: 15- IF- Slowly built to 0.50"
 30- IS- No blow
 10- FF- No blow Pulled tool

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2004.97	104.62	Initial Hydro-static
1	20.08	104.27	Open To Flow (1)
14	20.01	104.50	Shut-In(1)
48	1220.40	104.99	End Shut-In(1)
48	20.73	104.72	Open To Flow (2)
58	25.05	104.78	Shut-In(2)
59	1888.27	105.57	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	M	0.14

* Recovery from multiple tests

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

4-8S-15W Osborne, KS
Brummer #1
Job Ticket: 64497 **DST#: 4**
Test Start: 2019.09.18 @ 13:27:17

Tool Information

Drill Pipe:	Length: 3634.00 ft	Diameter: 3.82 inches	Volume: 51.51 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 40000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 37000.00 lb
Depth to Top Packer:	3630.00 ft			Final 37000.00 lb
Depth to Bottom Packer:	3651.00 ft			
Interval between Packers:	21.00 ft			
Tool Length:	168.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			3603.00	
Shut In Tool	5.00			3608.00	
Hydraulic tool	5.00			3613.00	
Jars	5.00			3618.00	
Safety Joint	3.00			3621.00	
Packer	5.00			3626.00	28.00 Bottom Of Top Packer
Packer	4.00			3630.00	
Stubb	1.00			3631.00	
Recorder	0.00	6771	Inside	3631.00	
Recorder	0.00	8700	Outside	3631.00	
Perforations	16.00			3647.00	
Blank Off Sub	1.00			3648.00	
Blank Spacing	3.00			3651.00	21.00 Tool Interval
Packer	1.00			3652.00	
Stubb	1.00			3653.00	
Perforations	17.00			3670.00	
Change Over Sub	1.00			3671.00	
Recorder	0.00	8367	Below	3671.00	
Drill Pipe	95.00			3766.00	
Change Over Sub	1.00			3767.00	
Bullnose	3.00			3770.00	119.00 Bottom Packers & Anchor

Total Tool Length: 168.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

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

4-8S-15W Osborne, KS
Brummer #1
Job Ticket: 64497 **DST#: 4**
Test Start: 2019.09.18 @ 13:27:17

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: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.99 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2600.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	M	0.142

Total Length: 10.00 ft Total Volume: 0.142 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

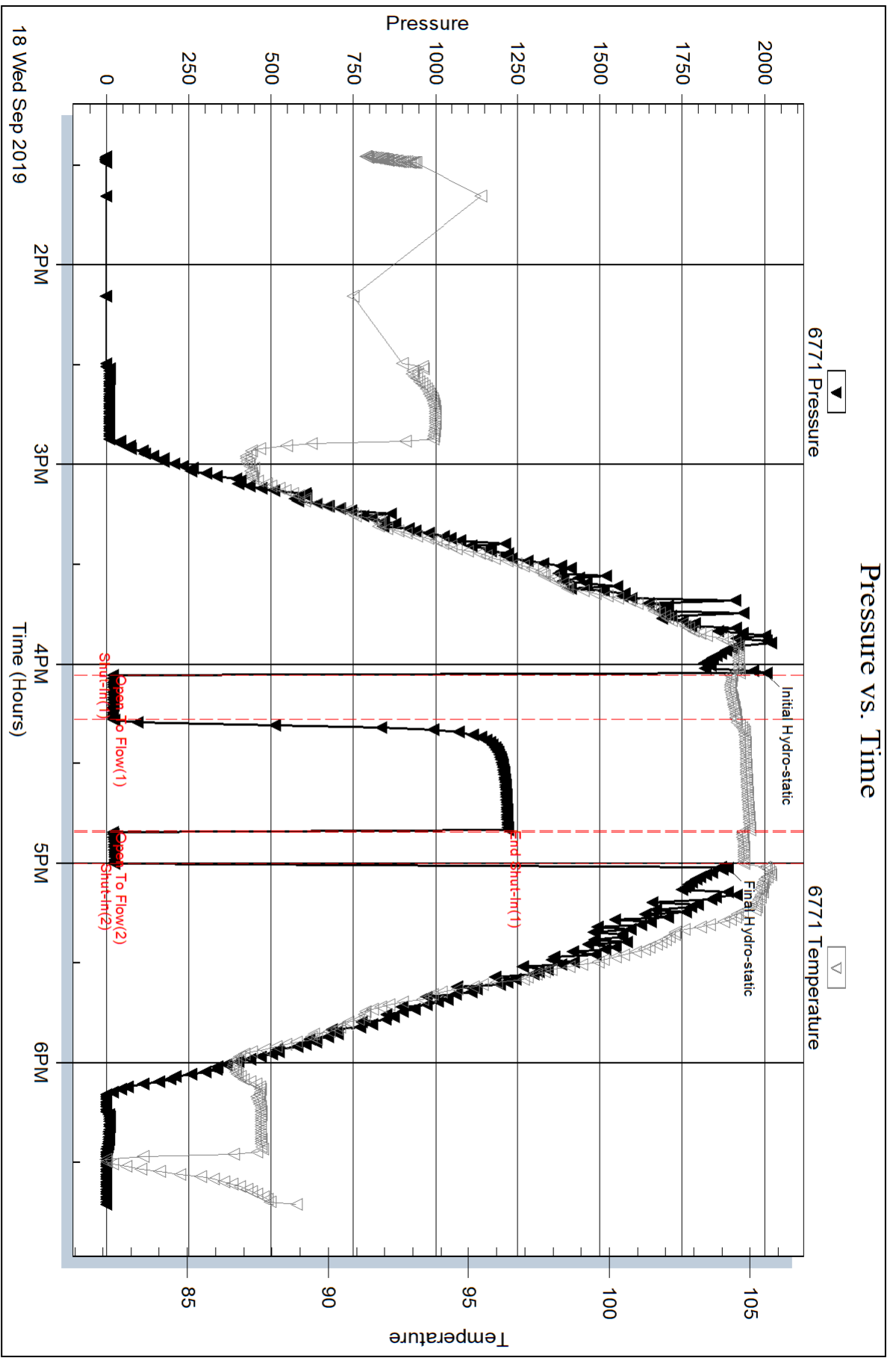
Serial #: 6771

Inside

Carmen Schmitt, Inc.

Bummer #1

DST Test Number: 4

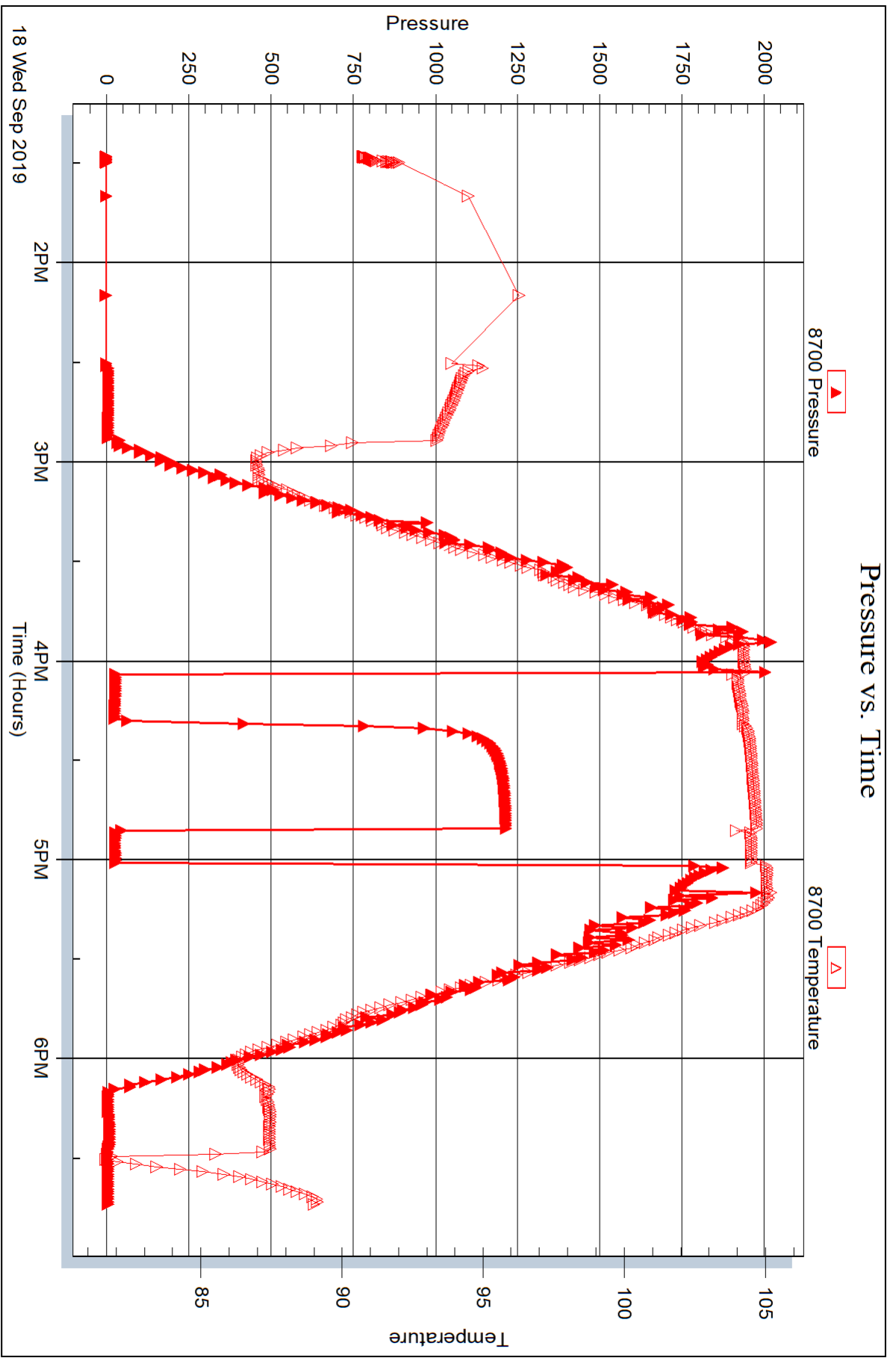


Serial #: 8700

Outside Carmen Schnitt, Inc.

Bummer #1

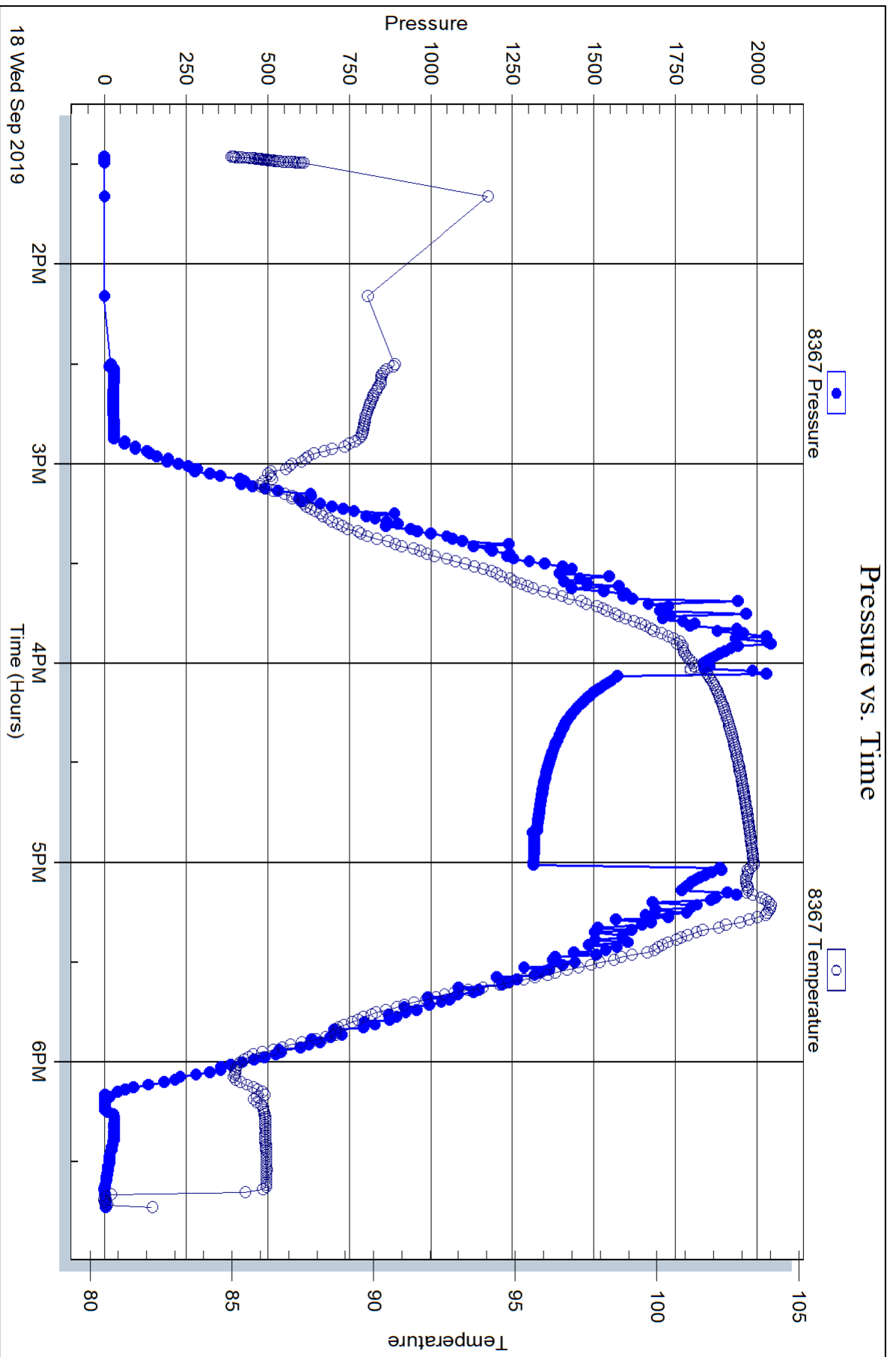
DST Test Number: 4



Triobite Testing, Inc

Ref. No: 64497

Printed: 2019.09.19 @ 09:25:29





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 64494

Well Name & No. Brunner #1 Test No. 1 Date 9/14/19
 Company Carmen Schmitt, Inc. Elevation 1883 KB 1875 GL
 Address PO Box 47 Great Bend, KS 67530
 Co. Rep / Geo. Brad Rine Rig Southwind 3.1
 Location: Sec. 4 Twp 8 S Rge. 15 W Co. Osborne State KS

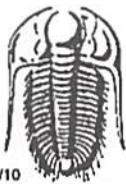
Interval Tested 2835-2855 Zone Tested Topeka
 Anchor Length 20' Drill Pipe Run 2783 Mud Wt. 8.8
 Top Packer Depth 2830 Drill Collars Run 57 Vis 49
 Bottom Packer Depth 2835 Wt. Pipe Run WL 7.2
 Total Depth 2855 Chlorides 3,100 ppm System LCM 2#
 Blow Description IF - Surface flow died 4mins
ISF - No flow
FF - No flow pulled tool
BSF -

Rec	Feet of	%gas	%oil	%water	%mud
3	M				

Rec Total 3' BHT 98° Gravity API RW @ °F Chlorides ppm

(A) Initial Hydrostatic <u>1393</u>	<input checked="" type="checkbox"/> Test <u>1200</u>	T-On Location <u>1707</u>
(B) First Initial Flow <u>15</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>1729</u>
(C) First Final Flow <u>17</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>2149</u>
(D) Initial Shut-In <u>865</u>	<input type="checkbox"/> Circ Sub <u> </u>	T-Pulled <u>2244</u>
(E) Second Initial Flow <u>19</u>	<input type="checkbox"/> Hourly Standby <u> </u>	T-Out <u>9/15</u> <u>0035</u>
(F) Second Final Flow <u>19</u>	<input checked="" type="checkbox"/> Mileage <u>142 RT</u> <u>142</u>	Comments <u> </u>
(G) Final Shut-In <u> </u>	<input type="checkbox"/> Sampler <u> </u>	<u> </u>
(H) Final Hydrostatic <u>1377</u>	<input type="checkbox"/> Straddle <u> </u>	<input type="checkbox"/> Ruined Shale Packer <u> </u>
Initial Open <u>15</u>	<input checked="" type="checkbox"/> Shale Packer <u>250</u>	<input type="checkbox"/> Ruined Packer <u> </u>
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer <u> </u>	<input type="checkbox"/> Extra Copies <u> </u>
Final Flow <u>10↑</u>	<input type="checkbox"/> Extra Recorder <u> </u>	Sub Total <u>0</u>
Final Shut-In <u> </u>	<input type="checkbox"/> Day Standby <u> </u>	Total <u>1917</u>
	<input type="checkbox"/> Accessibility <u> </u>	MP/DST Disc't <u> </u>
	Sub Total <u>1917</u>	

Approved By Our Representative Brennan Lonsdale
 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. 64495

Well Name & No. Brummer #1-2 Test No. 2 Date 9/15/19
 Company Carmen Schmitt, Inc. Elevation 1883 KB 1825 GL
 Address PO Box 47 Great Bend, KS 67530
 Co. Rep / Geo. Broad Rine Rig Southwind 3.1
 Location: Sec. 4 Twp 8 S Rge. 15 W Co. Osborne State KS

Interval Tested 3037-3099 Zone Tested Toronto-LKC "A"
 Anchor Length 62 Drill Pipe Run 8036 Mud Wt. 9.4
 Top Packer Depth 3032 Drill Collars Run --- Vis 44
 Bottom Packer Depth 3037 Wt. Pipe Run --- WL 8.0
 Total Depth 3099 Chlorides 2,700 ppm System LCM 1#

Blow Description IF- Surface blow died 2 mins
ISI- No blow
FP- No blow Pulled tool
PSI-

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>M</u>				
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 5' BHT 99° Gravity --- API RW --- @ --- °F Chlorides --- ppm

(A) Initial Hydrostatic <u>1521</u>	<input checked="" type="checkbox"/> Test <u>1200</u>	T-On Location <u>1543</u>
(B) First Initial Flow <u>20</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>1557</u>
(C) First Final Flow <u>21</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>1813</u>
(D) Initial Shut-In <u>242</u>	<input type="checkbox"/> Circ Sub <u>---</u>	T-Pulled <u>1908</u>
(E) Second Initial Flow <u>22</u>	<input type="checkbox"/> Hourly Standby <u>---</u>	T-Out <u>2052</u>
(F) Second Final Flow <u>22</u>	<input checked="" type="checkbox"/> Mileage <u>142 RT</u> 142	Comments <u>---</u>
(G) Final Shut-In <u>---</u>	<input type="checkbox"/> Sampler <u>---</u>	
(H) Final Hydrostatic <u>150.5</u>	<input type="checkbox"/> Straddle <u>---</u>	<input type="checkbox"/> Ruined Shale Packer <u>---</u>
Initial Open <u>15</u>	<input checked="" type="checkbox"/> Shale Packer <u>250</u>	<input type="checkbox"/> Ruined Packer <u>---</u>
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer <u>---</u>	<input type="checkbox"/> Extra Copies <u>---</u>
Final Flow <u>10</u> ↑	<input type="checkbox"/> Extra Recorder <u>---</u>	Sub Total <u>0</u>
Final Shut-In <u>---</u>	<input type="checkbox"/> Day Standby <u>---</u>	Total <u>1917</u>
	<input type="checkbox"/> Accessibility <u>---</u>	MP/DST Disc't <u>---</u>
	Sub Total <u>1917</u>	

Approved By _____

Our Representative Brennan Lawdale

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. 64496

Well Name & No. Brunner #1 Test No. 3 Date 9/16/19
 Company Carmen Schmitt, Inc. Elevation 1883 KB 1875 GL
 Address PO Box 47 Great Bend, KS 67530
 Co. Rep / Geo. Brad Rine Rig Southwind 3.1
 Location: Sec. 4 Twp 8 S Rge. 15 W Co. Osborne State KS

Interval Tested 3075-3162 Zone Tested LKC "A-D"
 Anchor Length 87' Drill Pipe Run 3068 Mud Wt. 9.4
 Top Packer Depth 3070 Drill Collars Run — Vis 44
 Bottom Packer Depth 3075 Wt. Pipe Run — WL 8.0
 Total Depth 3162 Chlorides 2,700 ppm System LCM 1#

Blow Description IF- 1/2" blow
ISA- No blow
FF- No blow Pulled tool
FSP-

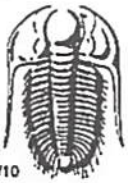
Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>M</u>				
	<u>Oil spots in tool</u>				

Rec Total 5' BHT 98° Gravity — API RW — @ — F Chlorides — ppm

(A) Initial Hydrostatic <u>1535</u>	<input checked="" type="checkbox"/> Test <u>1200</u>	T-On Location <u>0603</u>
(B) First Initial Flow <u>21</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>0617</u>
(C) First Final Flow <u>20</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>0848</u>
(D) Initial Shut-In <u>212</u>	<input type="checkbox"/> Circ Sub <u>—</u>	T-Pulled <u>0943</u>
(E) Second Initial Flow <u>20</u>	<input type="checkbox"/> Hourly Standby <u>—</u>	T-Out <u>1126</u>
(F) Second Final Flow <u>20</u>	<input checked="" type="checkbox"/> Mileage <u>142 BT</u> 142	Comments <u>—</u>
(G) Final Shut-In <u>—</u>	<input type="checkbox"/> Sampler <u>—</u>	
(H) Final Hydrostatic <u>1512</u>	<input type="checkbox"/> Straddle <u>—</u>	<input type="checkbox"/> Ruined Shale Packer <u>—</u>
	<input checked="" type="checkbox"/> Shale Packer <u>250</u>	<input type="checkbox"/> Ruined Packer <u>—</u>
Initial Open <u>15</u>	<input type="checkbox"/> Extra Packer <u>—</u>	<input type="checkbox"/> Extra Copies <u>—</u>
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Recorder <u>—</u>	Sub Total <u>0</u>
Final Flow <u>10↑</u>	<input type="checkbox"/> Day Standby <u>—</u>	Total <u>1917</u>
Final Shut-In <u>—</u>	<input type="checkbox"/> Accessibility <u>—</u>	MP/DST Disc't <u>—</u>
	Sub Total <u>1917</u>	

Approved By — Our Representative Brian Lonsdale

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **64497**

Well Name & No. Brunner #1 Test No. 4 Date 9/18/19
 Company Carmen Schmitt, Inc. Elevation 1883 KB 1875 GL
 Address PO Box 47 Creek Bend, KS 67530
 Co. Rep / Geo. Brad Rine Rig Southwind 3.1
 Location: Sec. 4 Twp 8 S Rge. 15 W Co. Osborne State KS

Interval Tested 3630-3651 Zone Tested Viola
 Anchor Length 21' Tail: 119' Drill Pipe Run 3634 Mud Wt. 9.3
 Top Packer Depth 3625-3630 Drill Collars Run _____ Vis 50
 Bottom Packer Depth 3651 Wt. Pipe Run _____ WL 8.0
 Total Depth 3770 Chlorides 3,600 ppm System LCM 1#
 Blow Description IF - slowly built to 0.50"
IST - No blow
FF - No blow Pulled tool
EST -

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>MA</u>				
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 10' BHT 105° Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>2005</u>	<input checked="" type="checkbox"/> Test 1200	T-On Location <u>1226</u>
(B) First Initial Flow <u>20</u>	<input checked="" type="checkbox"/> Jars 250	T-Started <u>1327</u>
(C) First Final Flow <u>20</u>	<input checked="" type="checkbox"/> Safety Joint 75	T-Open <u>1402</u>
(D) Initial Shut-In <u>1220</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>1457</u>
(E) Second Initial Flow <u>21</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>1842</u>
(F) Second Final Flow <u>25</u>	<input checked="" type="checkbox"/> Mileage <u>142 RT</u> 142	Comments _____
(G) Final Shut-In <u>1</u>	<input type="checkbox"/> Sampler _____	_____
(H) Final Hydrostatic <u>1888</u>	<input checked="" type="checkbox"/> Straddle 600	<input type="checkbox"/> Ruined Shale Packer _____
	<input checked="" type="checkbox"/> Shale Packer <u>x2</u> 500	<input type="checkbox"/> Ruined Packer _____
Initial Open <u>15</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>433.33</u>
Final Flow <u>10.1</u>	<input checked="" type="checkbox"/> Day Standby 1.5d 13h	Total <u>3200.33</u>
Final Shut-In _____	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>2767</u>	

Approved By _____

Our Representative Brannan Lousdale

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