



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1119474
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

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 SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- 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 ENHR Conv. to SWD
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - _____

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
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____



1119474

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 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				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 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)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____
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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> <input type="checkbox"/> Other <i>(Specify)</i> _____ <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Carmen Schmitt, Inc.
Well Name	Calvert 1-5
Doc ID	1119474

All Electric Logs Run

Dual Induction
Dual Compensated Porosity
Microresistivity
Sonic

GEOLOGIC REPORT

DAVID J. GOLDAK

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

Well Name: Calvert #1-5
Location: Section 5 - T12S - R20W
License Number: API: 15-051-26435
Spud Date: 11 / 29 / 2012
Surface Coordinates: 1200' FNL and 1900' FWL
Approx. C - E/2 - NW
Region: Ellis Co., KS
Drilling Completed: 12 / 05 / 2012
Bottom Hole Coordinates:
Ground Elevation (ft): 2211 K.B. Elevation (ft): 2216'
Logged Interval (ft): 3200' To: 3925' Total Depth (ft): 3925'
Formation: Weathered Arbuckle
Type of Drilling Fluid: Chemical - Mud Co

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

OPERATOR

Company: Carmen Schmitt, Inc.
Address: PO Box 47
Great Bend, KS 67530

GEOLOGIST

Name: David J. Goldak
Company: D. J. GOLDAK, INC.
Address: 155 N. Market, Suite 710
Wichita, Kansas 67202

General Info

CONTRACTOR: Murfin Drilling, Rig #16

BIT RECORD:

No.	Size	Make	Jets	Out	Feet	Hours
1	12-1/4	Smith-?-RR	15-15-15	220	220	2.25
2	7-7/8	HTC-GX20C	18-16-16	3574	3354	57.00
3	7-7/8	HTC-GX20C	18-16-16	3925	351	14.00

SURVEYS: 220'-0.25, 3574'-0.75, 3925'-1.0

GENERAL DRILLING & PUMP INFORMATION:

Pumping 62 S/M, 7.6 B/M, with 800 psi at the standpipe.
Drilling with 35,000-36,000 lbs on bit, at 80 RPM.
Drilling with 7.5 stands collars: 504.39'

Daily Status

11/29/12 - Spud at 2:00 PM; Set 8-5/8" Csg at 218'
 11/30/12 - 600' Drilling
 12/01/12 - 2,420' Drilling; Displace mud @ 2,964'
 12/02/12 - 3,290' Drilling; DST #1 @ 3,574'
 12/03/12 - 3,574' TIH following DST #1; DST #2 @ 3,722'
 12/04/12 - 3,755' Drilling; DST #3 @ 3,843'
 12/05/12 - 3,925' TOH for logs

DSTs

DST #1: 3,488' - 3,574' (Tor & LKC 'A-B') 15" - 30" - 45" - 60"

IF: Weak blow, building to 1-1/2 inches

ISI: Weak surface blow back

FF: Weak blow, building to 3/4 inch

FSI: No blow back

RECOVERY: 30' Total Fluid, consisting of:

30' SOCM (5% O & 95% M)

SIP: 886-856; FP: 57-61, 64-68; HP: 1755-1715; BHT: 106

DST #2: 3,704' - 3,722' (LKC 'J') 15" - 30" - 45" - 60"

IF: Weak blow, building to 2 inches

ISI: No blow back

FF: Weak blow, building to 2 inches

FSI: No blow back

RECOVERY: 61' Total Fluid, consisting of:

20' MW (60% W & 40% M)

41' MW w/ oil spots (95% W, 5% M)

Chlorides recovery: 32,000 ppm

SIP: 804-771; FP: 19-30, 33-46; HP: 1857-1779; BHT: 110

DST #3: 3,762' - 3,843' (Pawnee) 15" - 30" - 45" - 60"

IF: Weak blow, building to 9 inches

ISI: Weak surface blow back

FF: Good blow, BOB in 17 minutes

FSI: Weak surface blow back

RECOVERY: 189' GIP & 238' Total Fluid, consisting of:

31' GO (10% G & 90% O); Gravity: 36

126' GMCO (10% G, 50% O & 40% M)

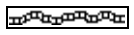
81' MCO (55% O & 45% M)

SIP: 966-892; FP: 62-92, 113-145; HP: 1934-1886; BHT: 112

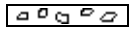
ROCK TYPES



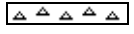
Anhy



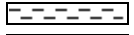
Bent



Brec



Cht



Clyst



Coal



Congl



Dol



Gyp



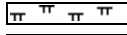
Igne



Lmst



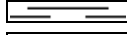
Meta



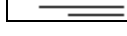
Mrlst



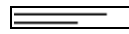
Salt



Shale



Shcol



Shgy



Sltst



Ss



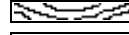
Till



Carb sh



Dol



Dtd



Gry sh



Sandylms



Shale



Sltstn



Shlyslts



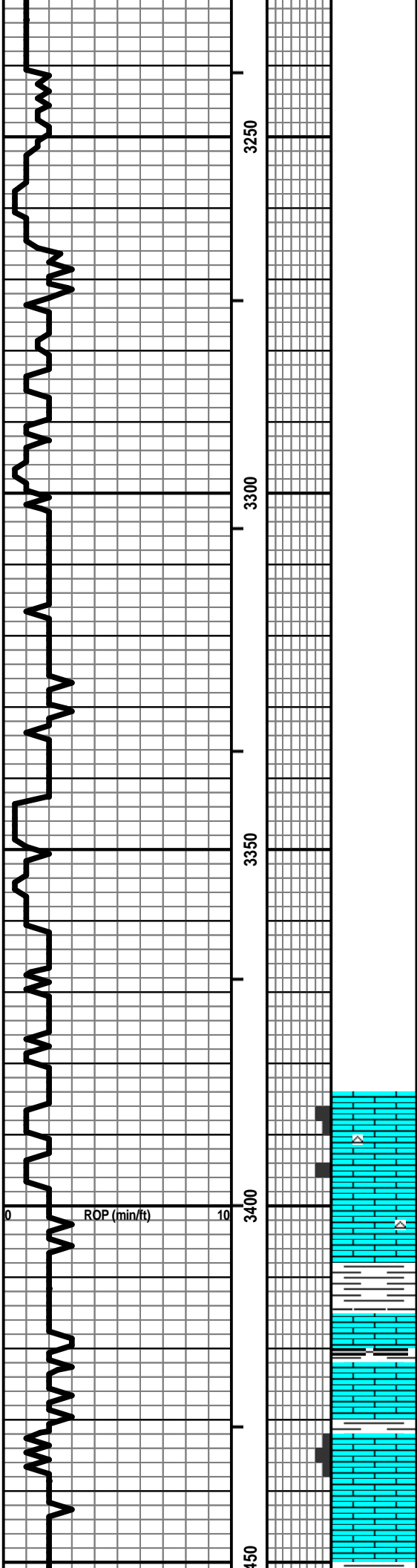
Sltyslts



Lms

Vis: 58, Wt: 8.9, YP: 27,
GelS: 9/15, pH: 11.0, WL: 7.4,
Chl: 2100, Sol: 4.3, LCM: 3#

TOPEKA 3266 (-1050)



Vis: 51, Wt: 8.9,
LCM: 3#

LS - CRM / LT GY, VF / F XLN, FOSS + OOLIN PT, P / F PPT +
MOLDIC POR, F INTXLN POR IN PT, CHKY IN PT, DNS, NS W/
SCAT CHT - WHT / LT GY

LS - TAN / BRN / GY, VF / F XLN, FOSS IN PT, SCAT CHKY,
PRED DNS, NS W / SH - GY / SCAT BLK, CARB IN PT

LS - TAN / CRM / SCAT GY, MOT IN PT, VF / F XLN, FOSS, P / F
VUG + INTXLN POR IN PT, DNS / TR CHKY, NS

LS - CRM / TAN, VF / F XLN, FOSS IN PT, TR OOL, P / SCAT F INTXLN POR, CHKY IN PT / DNS, TR BLK DEAD SPTY STN, NSFO, NO ODOR

LS - CRM / TAN, F / VF XLN, FOSS, SCAT F INTXLN + PPT POR, TR VUG POR, F S ASPH + GILS, NSFO, NO ODOR, SPTY BLK DEAD STN

SH - BLK, CARB W/LS - TAN, VF / F XLN, SL FOSS, PRED DNS, NS W/SH - GY

LS - CRM / WHT / TAN, F / SCAT M XLN, SL FOSS, P / F INTXLN + PPT POR, TR VUG POR, SSFO, S / F S GILS, NO ODOR, TR BARR POR, SPTY BRN / BLK STN, P / G FLOUR + CUT

LS - CRM / TAN, F XLN, FOSS, P / TR F INTPART POR IN PT, TR VUG POR, SSFO, NO ODOR, TR BARR POR, SCAT SPTY STN, F / G FLOUR + CUT W / SCAT CHT - WHT / LT GY / CRM

LS - CRM / TAN, VF / F XLN, FOSS IN PT, PRED DNS, NS W / CHT - WHT / LT GY / TAN W / SH - MED / DK GY

LS - CRM / TAN / LT GY, VF / F XLN, FOSS + OOL, P / TR F INTPART / INTXLN POR, SCAT CHKY, VSSFO, SCAT GILS, NO ODOR, SCAT SPTY STN, P / G FLOUR + CUT W / CHT - WHT / LT GY / CRM, OOL

LS - CRM / SCAT TAN, F XLN, FOSS IN PT, SCAT P INTXLN POR, PRED DNS, TR OILY FILM, NSFO, NO ODOR, SCAT SPTY STN

LS - CRM / TAN / GY, NOT IN PT, VF / CRYPTO XLN, FOSS IN PT, PRED DNS, NS

LS - CRM / SCAT TAN, F XLN, SCAT M REXLN CALC, OOL, FOSS IN PT, PRED P / F INTXLN + PPT POR, TR VUG POR, CHKY IN PT, NSFO, NO ODOR, TR SPTY STN

LS - CRM / WHT / TAN, VF / F XLN, OOL IN PT, TR P INTXLN POR, TR STN, NSFO, NO ODOR W / SCAT CHT - LT GY / WHT / TAN

LS - CRM / GY / WHT, VF / F XLN, SCAT OOL, CHKY IN PT, PRED DNS, NS W / SCAT CHT - AA W / SCAT SH - GY / BLK, CARB IN PT

HEEBNER 3490 (-1274)

TORONTO 3511 (-1295)

Vis: 52, Wt: 9.0,
LCM: 2#

LANSING 3527 (-1311)

**DST #1: 3,488' - 3,574' (Tor & LKC 'A-B')
15"-30"-45"-60"**

**IF: Weak blow, building to 1-1/2 inches
ISI: Weak surface blow back
FF: Weak blow, building to 3/4 inch
FSI: No blow back**

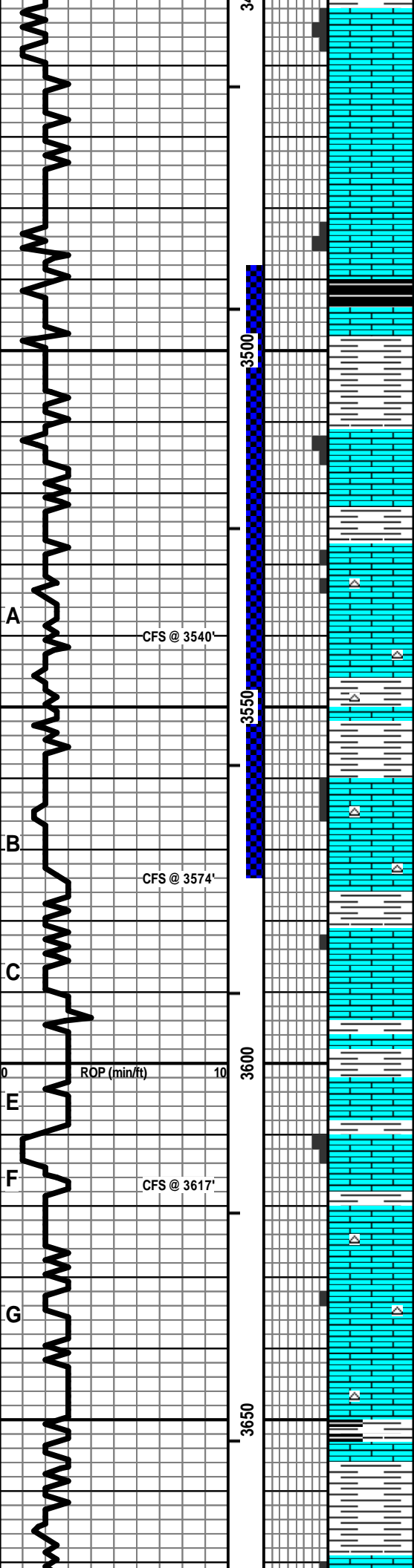
**RECOVERY: 30' Total Fluid:
30' SOCM (5% O & 95% M)**

**SIP: 886-856 HP: 1755-1715
FP: 57-61, 64-68 BHT: 106**

PIPE STRAP @ 3,574': LONG 0.32'

DRLG WITH BIT #3: 7-7/8" CONV RR
HTC-GX20C; JETS: 18-16-16

Vis: 53, Wt: 9.0, YP: 24,
GelS: 11/15, pH: 10.5, WL: 7.8,
Ch: 2500, Sol: 4.9, LCM: 3#

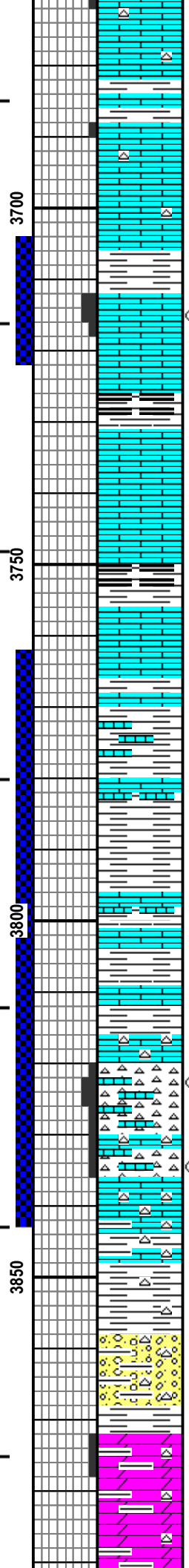
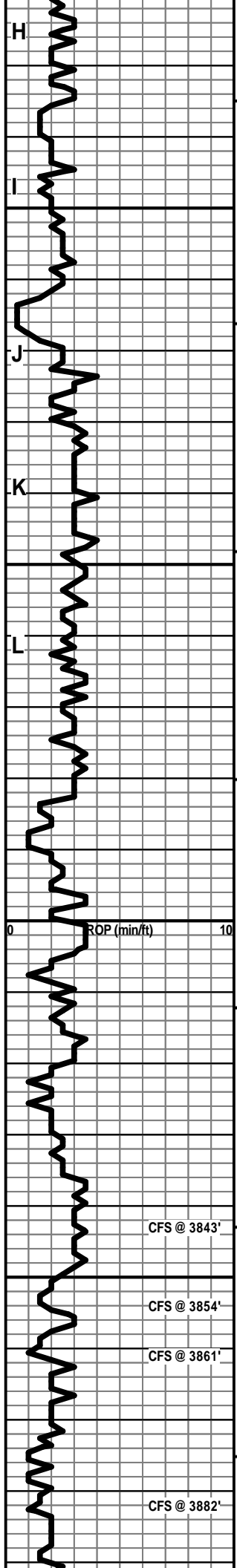


CFS @ 3540'

CFS @ 3574'

CFS @ 3617'

Vis: 59, Wt: 9.1,
LCM: 2.5#



LS - CRM / GY, VF / F XLN, OOL IN PT, TR P MOLDIC + INTXLN POR, PRED DNS, NS, NO ODOR W/ SCAT CHT - GY / WHT / SCAT CRM + TAN

LS - CRM / TAN, VF / F XLN, SCAT M REXLN CALC, FOSS + OOL IN PT, TR P INTXLN POR, CHKY IN PT, PRED DNS, NS, NO ODOR W/ SCAT CHT - PRED WHT / LT GY

LS - CRM / TAN, F XLN, FOSS + OOL IN PT, P / G INTXLN POR, P / F PPT POR, TR VUG POR, SSFO, SSGB, S / F S GILS, SCAT BARR POR, V FT ODOR, SPTY BRN / BLK STN, P / G FLOUR + CUT

LS - CRM / TAN / GY, MOT IN PT, VF / F XLN, SCAT CRYPTO XLN, OOL IN PT, SL FOSS, CHKY IN PT, PRED DNS, NS, NO ODOR, TR SPTY BLK STN

LS - TAN / CRM, VF / F XLN, OOL, FOSS IN PT, CHKY IN PT, PRED DNS, NS, NO ODOR

SH - RED / GY / GRN W/LS - GY / TAN / CRM, MOT IN PT, VF / F XLN, FOSS IN PT, PRED DNS, NS

SH - RED / GY / SCAT GRN, SCATAREN W/LS - GY / TAN, VF / F XLN, OOL IN PT, PRED DNS, NS

LS - CRM / TAN / SCAT GY, VF / F XLN, OOL IN PT, PRED DNS, NS W/ SH - GY / RED

CHT - PRED WHT / LT GY / CRM, SCAT ORG / YEL, CALC IN PT, SL / MOD WEATH, SCAT TRIP + VUG POR, S / SCAT F SFO + GB, SPTY STN W/LS - CRM / TAN, F / SCAT M XLN, SL / V CHTY, F INTXLN POR IN PT, SSFO + GB, SPTY / SCAT SAT STN; OVERALL: F ODOR, F / G FLOUR + CUT

LS - CRM / TAN / GY, F XLN, SL / V CHTY, P / TR F INTXLN POR, SCAT SHOWS AA, SCAT GILS, SCAT BARR W/ CHT - AA, WEATH IN PT, SCAT POR + SHOWS AA, SCAT GILS; OVERALL: F ODOR, P / G FLOUR + CUT

ABNT SH - RED / GY W/ CHT - AA, PRED VIT W/ CHTYLS - AA, P / NO VIS POR, NSFO, NO ODOR, SCAT STN

CONGL: ABNT CHT + LRG ANG QTZ, VARICOL, OOL IN PT, SL DOLO IN PT, TR P VUG POR W/ SH - RED / GY / SCAT GRN W/ SCAT LS + TR DOLO - GY / TAN / CRM, FOSS IN PT, PRED DNS, NSFO, NO ODOR, TR SPTY STN

ABNT CONGL + SH - AS ABOVE W/ DOLO - CRM / TAN, F / M XLN, RHOMB IN PT, F INTXLN POR, NS, NO ODOR

DST #2: 3,704' - 3,722' (LKC 'J')
15"-30"-45"-60"

IF: Weak blow, building to 2 inches
ISI: No blow back
FF: Weak blow, building to 2 inches
FSI: No blow back

RECOVERY: 61' Total Fluid:
20' MW (60% W & 40% M)
41' MW w/ oil spots (95% W, 5% M)
Chlorides recovery: 32,000 ppm

SIP: 804-771 HP: 1857-1779
FP: 19-30, 33-46 BHT: 110

Vis: 55, Wt: 9.2, YP: 25,
GelS: 9/19, pH: 10.5, WL: 7.8,
Chl: 2500, Sol: 6.3, LCM: 2#

BASE OF KC 3766 (-1550)

Vis: 52, Wt: 9.3,
LCM: 2#

PAWNEE 3816 (-1600)

DST #3: 3,762' - 3,843' (Pawnee)
15"-30"-45"-60"

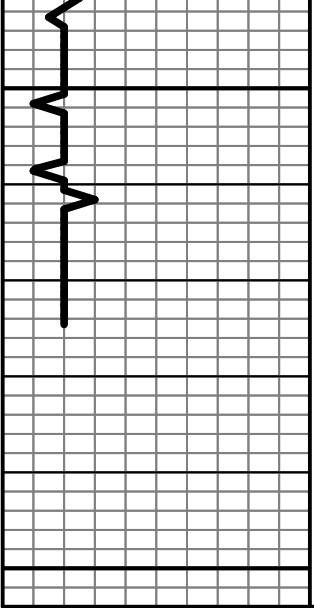
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ISI: Weak surface blow back
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126' GMCO (10% G, 50% O & 40% M)
81' MCO (55% O & 45% M)

SIP: 966-892 HP: 1934-1886
FP: 62-92, 113-145 BHT: 112

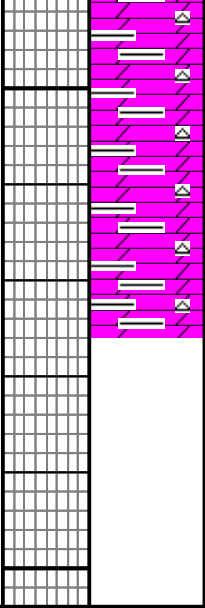
WEATH. ARBUCKLE 3872 (-1656)

Vis: 57, Wt: 9.3,



3900

3950



MOD AMT DOLO - CRM / TAN, F / M XLN, SCAT C XLN,
RHOMB IN PT, P INTXLN POR, SCAT VUG POR, NS, NO ODOR
W/ ABNT CONGL + SH - AA

MOD AMT DOLO - CRM / TAN, F / M XLN, SCAT C XLN,
RHOMB IN PT, P INTXLN POR, TR VUG POR, NS, NO ODOR
W/ ABNT CONGL + SH - AA

TOTAL DEPTH 3925 (-1709)



DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt, Inc**

PO Box 47
Great Bend, KS 67530-0047

ATTN: Carmen Schmitt

Calvert #1-5

5-12s-20w Ellis, KS

Start Date: 2012.12.02 @ 22:21:10

End Date: 2012.12.03 @ 04:54:10

Job Ticket #: 44321 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.12.05 @ 10:59:12



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Carmen Schmitt, Inc
 PO Box 47
 Great Bend, KS 67530- 0047
 ATTN: Carmen Schmitt

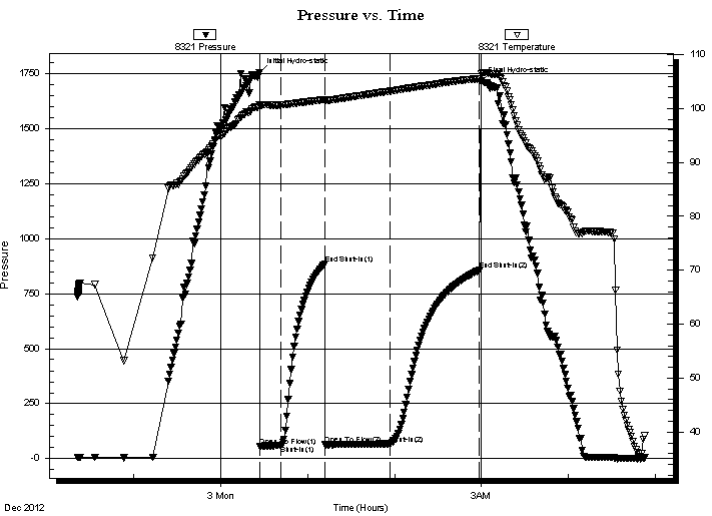
5-12s-20w Ellis, KS
Calvert #1-5
 Job Ticket: 44321 **DST#: 1**
 Test Start: 2012.12.02 @ 22:21:10

GENERAL INFORMATION:

Formation: **Tor - LKC B**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 00:27:10 Tester: Jeff Brown
 Time Test Ended: 04:54:10 Unit No: 44
 Interval: **3488.00 ft (KB) To 3574.00 ft (KB) (TVD)** Reference Elevations: 2216.00 ft (KB)
 Total Depth: 3574.00 ft (KB) (TVD) 2211.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 5.00 ft

Serial #: 8321 Inside
 Press @ Run Depth: 67.85 psig @ 3557.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.12.02 End Date: 2012.12.03 Last Calib.: 2012.12.03
 Start Time: 22:21:11 End Time: 04:53:10 Time On Btm: 2012.12.03 @ 00:26:40
 Time Off Btm: 2012.12.03 @ 02:59:40

TEST COMMENT: IFP=Weak blow built to 1 1/2"
 ISI=Weak surface blow back
 FFP=Weak blow built to 1"
 FSI=Dead no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1755.06	100.78	Initial Hydro-static
1	56.61	100.50	Open To Flow (1)
15	60.54	100.65	Shut-In(1)
45	885.53	101.65	End Shut-In(1)
46	63.80	101.47	Open To Flow (2)
90	67.85	103.20	Shut-In(2)
152	856.30	105.54	End Shut-In(2)
153	1714.77	106.46	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	SOCM 5%O 95%M	0.16

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- 0047
 ATTN: Carmen Schmitt

5-12s-20w Ellis, KS
Calvert #1-5
 Job Ticket: 44321 **DST#: 1**
 Test Start: 2012.12.02 @ 22:21:10

Tool Information

Drill Pipe:	Length: 3456.00 ft	Diameter: 3.80 inches	Volume: 48.48 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 22000.00 lb
Drill Collar:	Length: 29.00 ft	Diameter: 2.25 inches	Volume: 0.14 bbl	Weight to Pull Loose: 58000.00 lb
			<u>Total Volume: 48.62 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3488.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	86.00 ft			
Tool Length:	106.00 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			3469.00	
Shut In Tool	5.00			3474.00	
Hydraulic tool	5.00			3479.00	
Packer	4.00			3483.00	20.00 Bottom Of Top Packer
Packer	5.00			3488.00	
Stubb	1.00			3489.00	
Perforations	3.00			3492.00	
Change Over Sub	1.00			3493.00	
Drill Pipe	63.00			3556.00	
Change Over Sub	1.00			3557.00	
Recorder	0.00	8321	Inside	3557.00	
Recorder	0.00	8737	Outside	3557.00	
Perforations	14.00			3571.00	
Bullnose	3.00			3574.00	86.00 Bottom Packers & Anchor

Total Tool Length: 106.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Carmen Schmitt, Inc
 PO Box 47
 Great Bend, KS 67530- 0047
 ATTN: Carmen Schmitt

5-12s-20w Ellis, KS
Calvert #1-5
 Job Ticket: 44321 **DST#: 1**
 Test Start: 2012.12.02 @ 22:21:10

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: 58.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.38 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2100.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	SOCM 5%O 95%M	0.157

Total Length: 30.00 ft Total Volume: 0.157 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

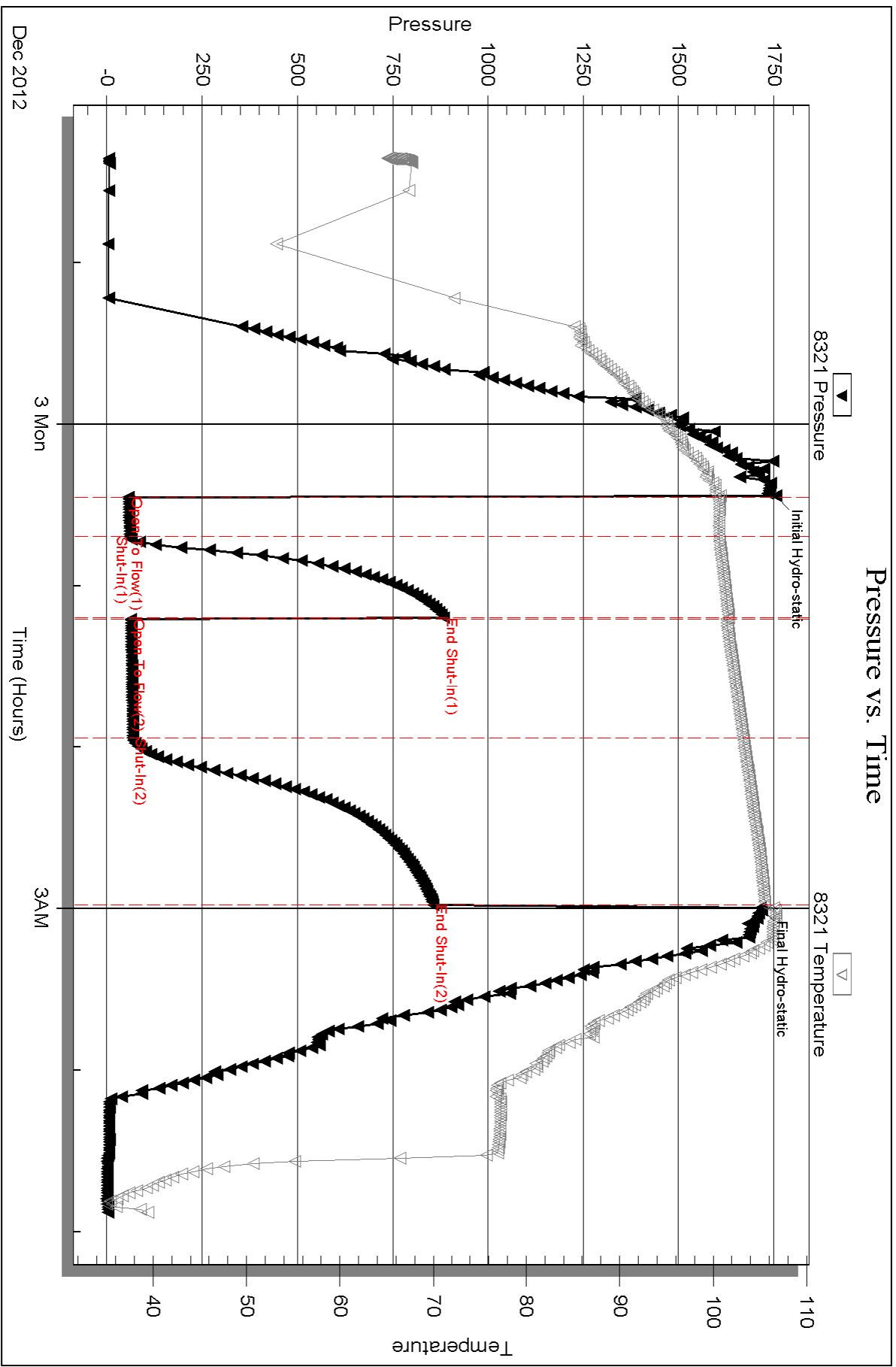
Serial #: 8321

Inside

Carmen Schmitt, Inc

Calvert #1-5

DST Test Number: 1

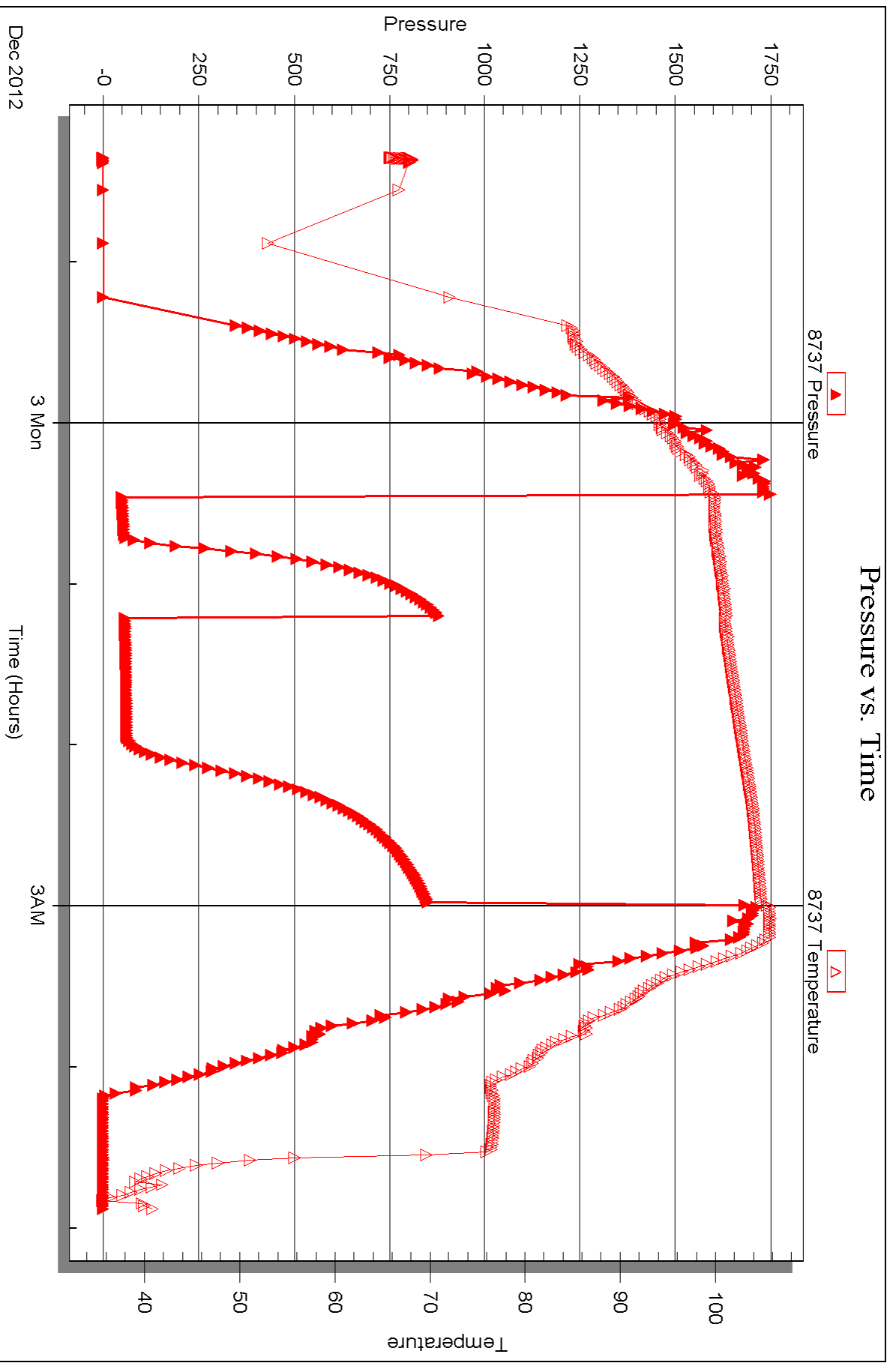


Serial #: 8737

Outside Carmen Schmitt, Inc

Calvert #1-5

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt, Inc**

PO Box 47
Great Bend, KS 67530-0047

ATTN: Carmen Schmitt

Calvert #1-5

5-12s-20w Ellis, KS

Start Date: 2012.12.03 @ 20:15:58

End Date: 2012.12.04 @ 02:00:58

Job Ticket #: 44322 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.12.05 @ 10:58:25



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Carmen Schmitt, Inc
 PO Box 47
 Great Bend, KS 67530- 0047
 ATTN: Carmen Schmitt

5-12s-20w Ellis, KS
Calvert #1-5
 Job Ticket: 44322 **DST#: 2**
 Test Start: 2012.12.03 @ 20:15:58

GENERAL INFORMATION:

Formation: **LKC-J**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 21:38:58
 Time Test Ended: 02:00:58
 Interval: **3704.00 ft (KB) To 3722.00 ft (KB) (TVD)**
 Total Depth: 3722.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Jeff Brown
 Unit No: 44
 Reference Elevations: 2216.00 ft (KB)
 2211.00 ft (CF)
 KB to GR/CF: 5.00 ft

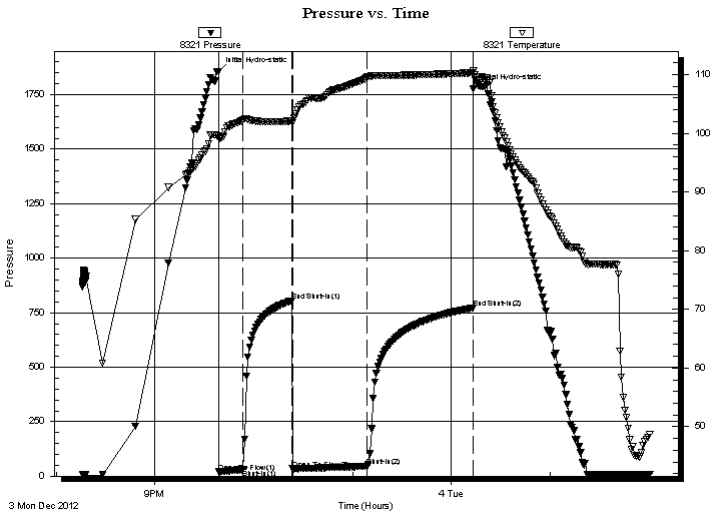
Serial #: 8321

Inside

Press @ Run Depth: 45.66 psig @ 3705.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.12.03 End Date: 2012.12.04 Last Calib.: 2012.12.04
 Start Time: 20:15:59 End Time: 02:00:58 Time On Btm: 2012.12.03 @ 21:38:28
 Time Off Btm: 2012.12.04 @ 00:13:28

TEST COMMENT: IFP=Weak blow built to 2"
 ISI=Dead no blow back
 FFP=Weak blow built to 2"
 FSI=Dead no blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1857.42	99.54	Initial Hydro-static
1	19.11	99.16	Open To Flow (1)
15	30.23	102.33	Shut-In(1)
45	804.29	102.10	End Shut-In(1)
45	33.26	101.77	Open To Flow (2)
91	45.66	109.58	Shut-In(2)
155	771.28	110.29	End Shut-In(2)
155	1778.80	110.71	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	MW 40%M 60%W	0.10
41.00	MW with oil spots 5%M 95%W	0.49

* 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 67530-0047
 ATTN: Carmen Schmitt

5-12s-20w Ellis, KS
Calvert #1-5
 Job Ticket: 44322 **DST#: 2**
 Test Start: 2012.12.03 @ 20:15:58

Tool Information

Drill Pipe:	Length: 3677.00 ft	Diameter: 3.80 inches	Volume: 51.58 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 29.00 ft	Diameter: 2.25 inches	Volume: 0.14 bbl	Weight to Pull Loose:	60000.00 lb
			<u>Total Volume: 51.72 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial	48000.00 lb
Depth to Top Packer:	3704.00 ft			Final	48000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	18.00 ft				
Tool Length:	38.00 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			3685.00	
Shut In Tool	5.00			3690.00	
Hydraulic tool	5.00			3695.00	
Packer	4.00			3699.00	20.00 Bottom Of Top Packer
Packer	5.00			3704.00	
Stubb	1.00			3705.00	
Recorder	0.00	8321	Inside	3705.00	
Recorder	0.00	8737	Outside	3705.00	
Perforations	14.00			3719.00	
Bullnose	3.00			3722.00	18.00 Bottom Packers & Anchor
Total Tool Length:	38.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Carmen Schmitt, Inc
PO Box 47
Great Bend, KS 67530- 0047
ATTN: Carmen Schmitt

5-12s-20w Ellis, KS
Calvert #1-5
Job Ticket: 44322 **DST#: 2**
Test Start: 2012.12.03 @ 20:15:58

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: 53.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.79 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2500.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	MW 40%M 60%W	0.098
41.00	MW w ith oil spots 5%M 95%W	0.493

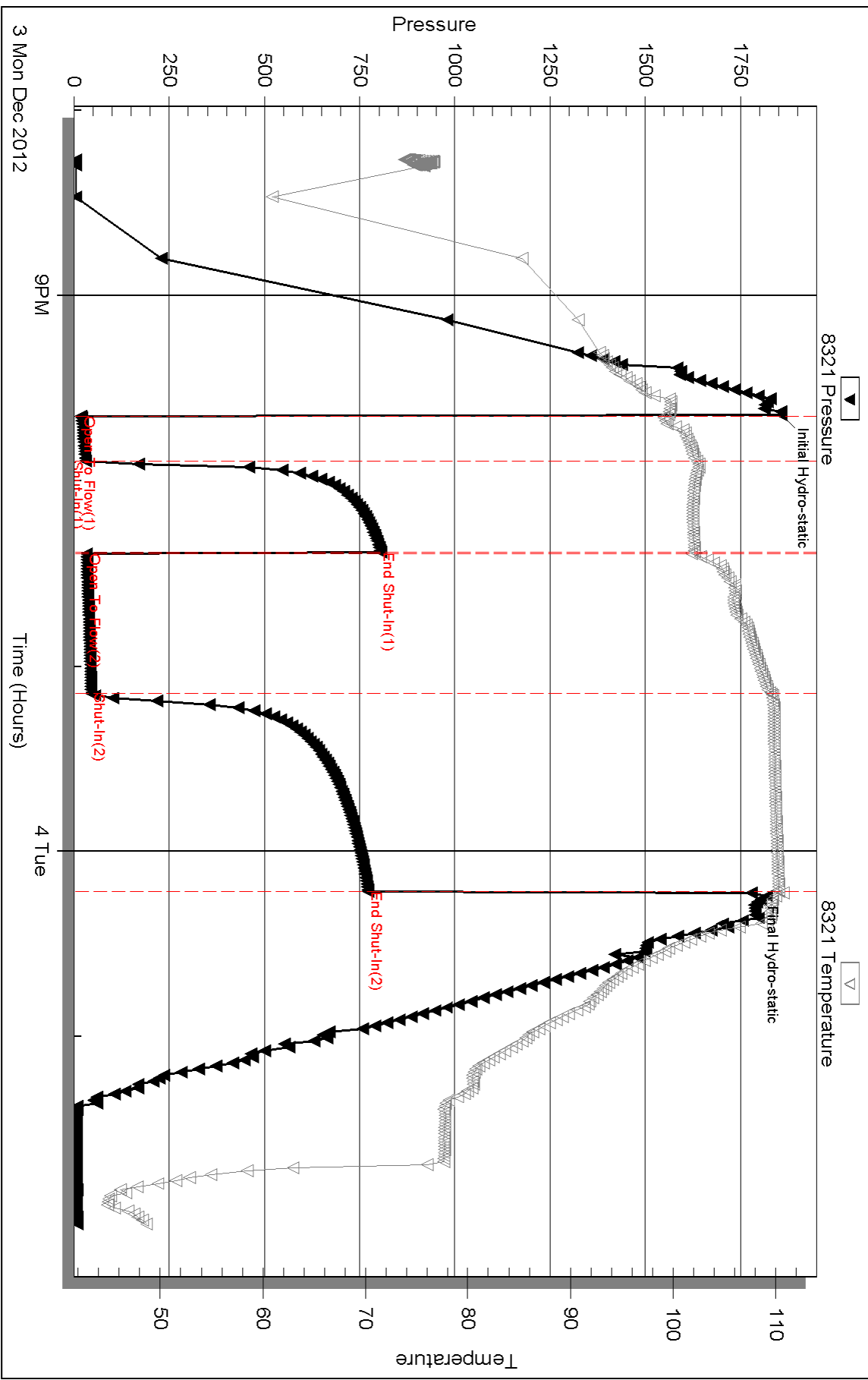
Total Length: 61.00 ft Total Volume: 0.591 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

Pressure vs. Time

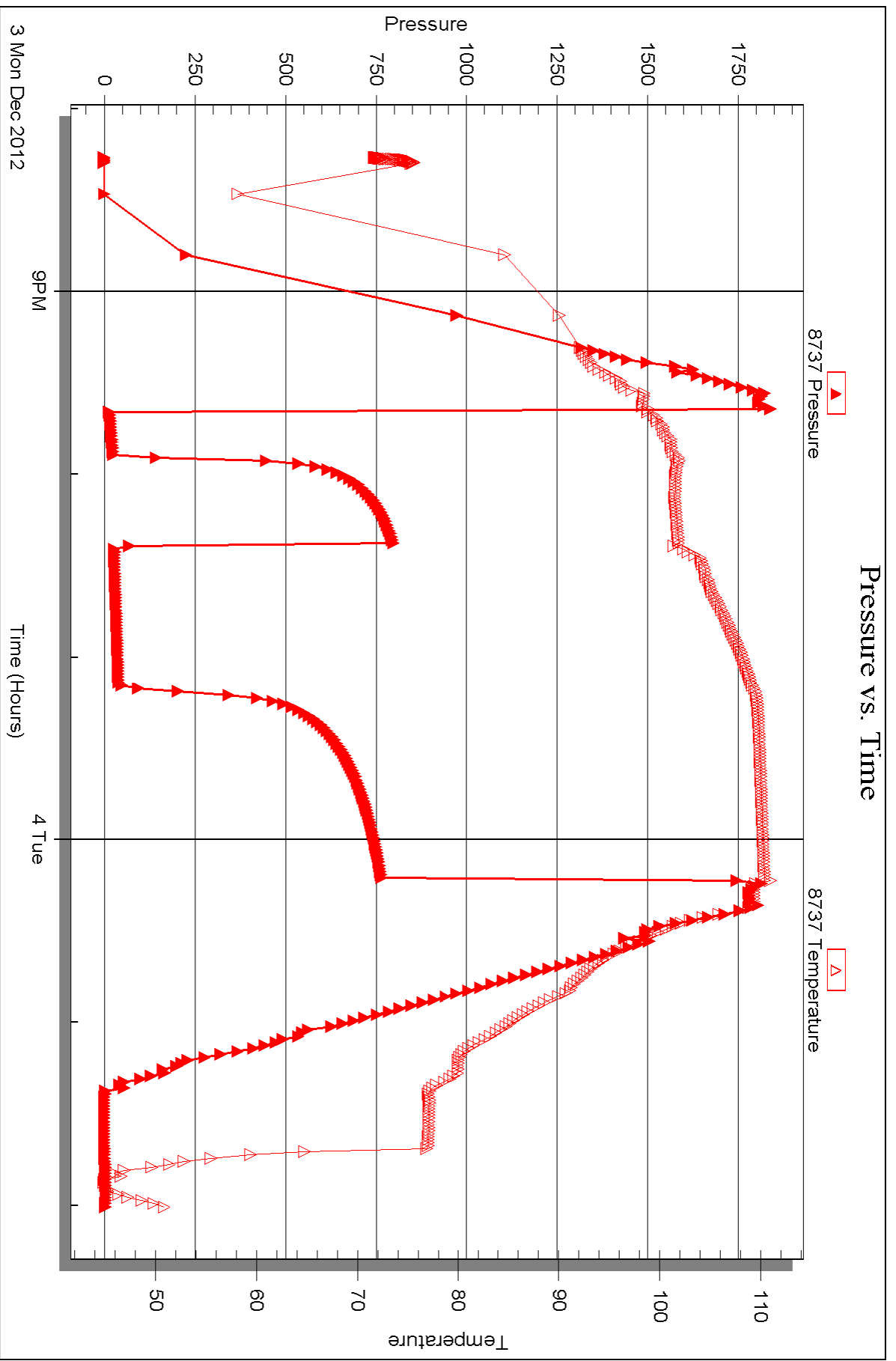


Serial #: 8737

Outside Carmen Schmitt, Inc

Calvert #1-5

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt, Inc**

PO Box 47
Great Bend, KS 67530-0047

ATTN: Carmen Schmitt

Calvert #1-5

5-12s-20w Ellis, KS

Start Date: 2012.12.04 @ 13:16:48

End Date: 2012.12.04 @ 19:15:48

Job Ticket #: 44323 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.12.05 @ 10:57:38



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Carmen Schmitt, Inc
 PO Box 47
 Great Bend, KS 67530-0047
 ATTN: Carmen Schmitt

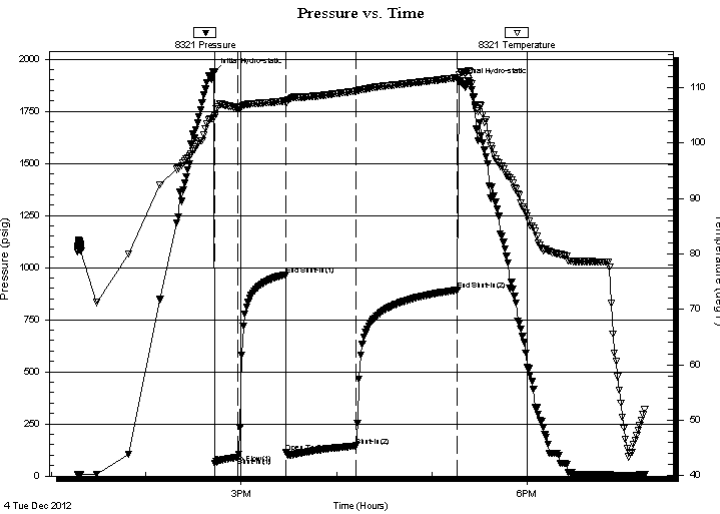
5-12s-20w Ellis, KS
Calvert #1-5
 Job Ticket: 44323 **DST#: 3**
 Test Start: 2012.12.04 @ 13:16:48

GENERAL INFORMATION:

Formation: **Pawnee**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 14:43:18
 Time Test Ended: 19:15:48
 Interval: **3762.00 ft (KB) To 3843.00 ft (KB) (TVD)**
 Total Depth: 3843.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Jeff Brown
 Unit No: 44
 Reference Elevations: 2216.00 ft (KB)
 2211.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8321 Inside
 Press @ Run Depth: 145.33 psig @ 3830.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.12.04 End Date: 2012.12.04 Last Calib.: 2012.12.04
 Start Time: 13:16:49 End Time: 19:14:48 Time On Btm: 2012.12.04 @ 14:42:48
 Time Off Btm: 2012.12.04 @ 17:17:18

TEST COMMENT: IFP=Fair blow built to 9"
 ISI=Weak surface blow back
 FFP=Good blow BOB in 17 1/2 min
 FSI= Weak surface blow back built to 1/8"



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1934.15	104.58	Initial Hydro-static
1	62.39	104.88	Open To Flow (1)
15	91.86	106.28	Shut-In(1)
45	966.04	107.60	End Shut-In(1)
46	113.14	107.17	Open To Flow (2)
90	145.33	109.38	Shut-In(2)
154	892.35	111.78	End Shut-In(2)
155	1885.72	112.31	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
81.00	MCO 45%M 55%O	0.87
126.00	GMCO 10%G 40%M 50%O	1.77
31.00	Gassy Oil 10%G 90%O	0.43
0.00	189-GIP	0.00

* 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- 0047
 ATTN: Carmen Schmitt

5-12s-20w Ellis, KS
Calvert #1-5
 Job Ticket: 44323 **DST#: 3**
 Test Start: 2012.12.04 @ 13:16:48

Tool Information

Drill Pipe:	Length: 3741.00 ft	Diameter: 3.80 inches	Volume: 52.48 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer:	22000.00 lb
Drill Collar:	Length: 29.00 ft	Diameter: 2.25 inches	Volume: 0.14 bbl	Weight to Pull Loose:	60000.00 lb
			<u>Total Volume: 52.62 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial	50000.00 lb
Depth to Top Packer:	3762.00 ft			Final	52000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	81.00 ft				
Tool Length:	101.00 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			3743.00	
Shut In Tool	5.00			3748.00	
Hydraulic tool	5.00			3753.00	
Packer	4.00			3757.00	20.00 Bottom Of Top Packer
Packer	5.00			3762.00	
Stubb	1.00			3763.00	
Perforations	2.00			3765.00	
Change Over Sub	1.00			3766.00	
Drill Pipe	63.00			3829.00	
Change Over Sub	1.00			3830.00	
Recorder	0.00	8321	Inside	3830.00	
Recorder	0.00	8737	Outside	3830.00	
Perforations	10.00			3840.00	
Bullnose	3.00			3843.00	81.00 Bottom Packers & Anchor

Total Tool Length: 101.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Carmen Schmitt, Inc
 PO Box 47
 Great Bend, KS 67530- 0047
 ATTN: Carmen Schmitt

5-12s-20w Ellis, KS
Calvert #1-5
 Job Ticket: 44323 **DST#: 3**
 Test Start: 2012.12.04 @ 13:16:48

Mud and Cushion Information

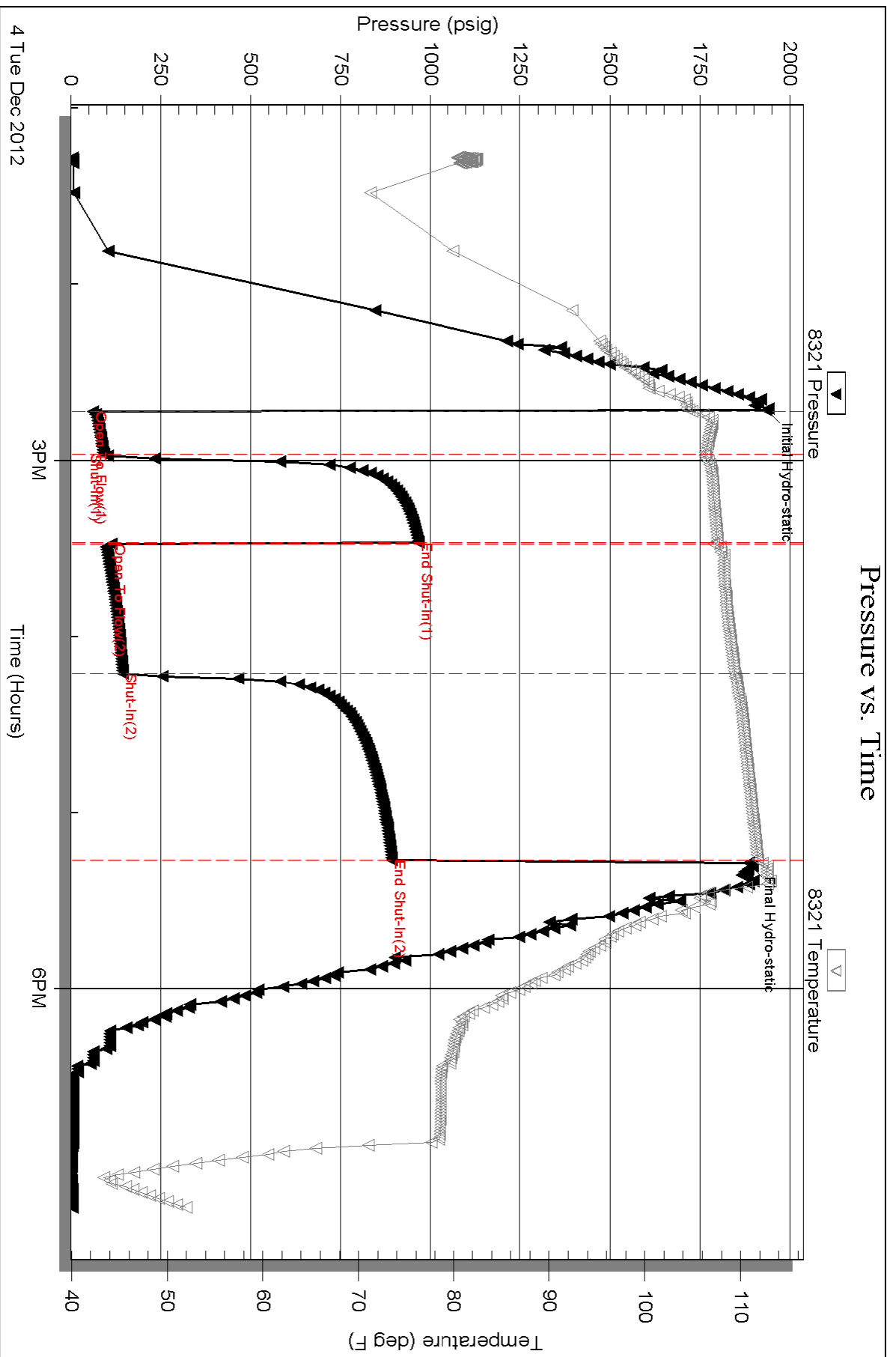
Mud Type: Gel Chem	Cushion Type:	Oil API: 36 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 55.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.79 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 2500.00 ppm		
Filter Cake: inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
81.00	MCO 45%M 55%O	0.872
126.00	GMCO 10%G 40%M 50%O	1.767
31.00	Gassy Oil 10%G 90%O	0.435
0.00	189-GIP	0.000

Total Length: 238.00 ft Total Volume: 3.074 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

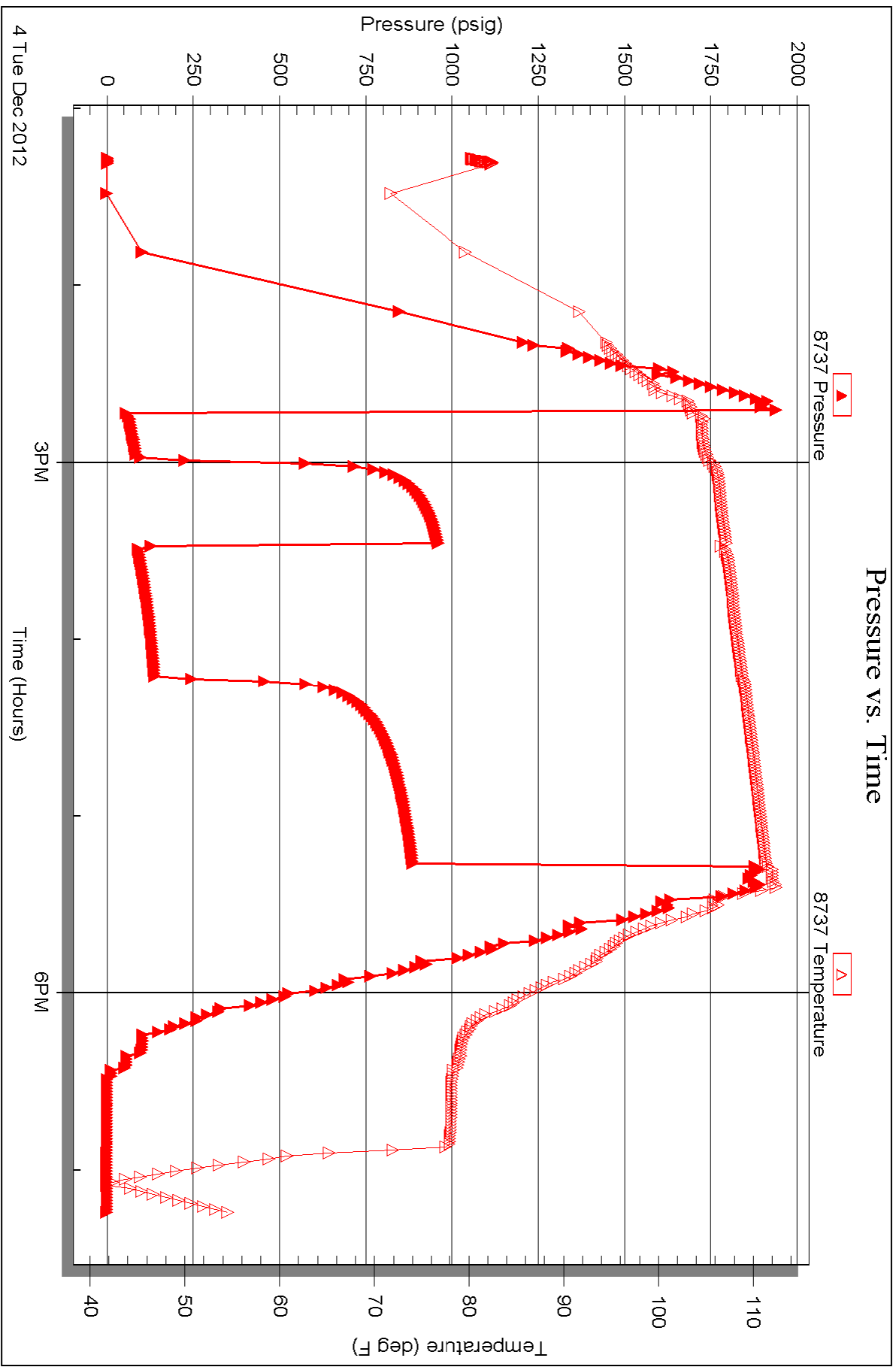


Serial #: 8737

Outside Carmen Schmitt, Inc

Calvert #1-5

DST Test Number: 3





TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 44321

Well Name & No. CALVERT #1-5 Test No. 1 Date 12-2-12
 Company Carmen Schmitt, INC Elevation 2216 KB 2211 GL
 Address PO Box 47 Great Bend KS 67530 + 0047
 Co. Rep / Geo. Dave Goldak Rig Murfin #14
 Location: Sec. 5 Twp. 12 S Rge. 20 W Co. ELLIS State KS

Interval Tested 3488-3574 Zone Tested TOR LKC -A-B
 Anchor Length 86 Drill Pipe Run 3456 Mud Wt. 8.9
 Top Packer Depth 3483 Drill Collars Run 29 Vis 58
 Bottom Packer Depth 3488 Wt. Pipe Run 0 WL 7.4
 Total Depth 3574 Chlorides 2100 ppm System LCM 3
 Blow Description IF-Weak Blow Built To 1 1/2 IN
IS-Weak Surface Blow Back
FA-Weak Blow Built To 1 IN
FSI-Dead NO Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>30</u>	<u>SOCM</u>		<u>5</u>		<u>95</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 30 BHT 106 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1755 Test 1150 T-On Location 9:45 21:45
 (B) First Initial Flow 57 Jars _____ T-Started 22:21
 (C) First Final Flow 61 Safety Joint _____ T-Open 00:27
 (D) Initial Shut-In 886 Circ Sub _____ T-Pulled 2:57
 (E) Second Initial Flow 64 Hourly Standby _____ T-Out 4:54
 (F) Second Final Flow 68 Mileage 50 RT 77.50 Comments _____
 (G) Final Shut-In 856 Sampler _____
 (H) Final Hydrostatic 1715 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1227.50
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1227.50

Initial Open 15
 Initial Shut-In 30
 Final Flow 45
 Final Shut-In 60

Approved By _____ Our Representative Jeff Brown

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.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 44323

Well Name & No. CALVERT #1-5 Test No. 3 Date 12-4-12
 Company Calmen Schmitt INC Elevation 2216 KB 2211 GL
 Address PO Box 47 Great Bend KS 67530 + 0047
 Co. Rep / Geo. Dave Goldak Rig Murfin #16
 Location: Sec. 5 Twp. 12S Rge. 20W Co. ELL'S State KS

Interval Tested 3762-3843 Zone Tested Rannee
 Anchor Length 81 Drill Pipe Run 3741 Mud Wt. 9.2
 Top Packer Depth 3757 Drill Collars Run 29 Vis 55
 Bottom Packer Depth 3762 Wt. Pipe Run 0 WL 7.8
 Total Depth 3843 Chlorides 2500 ppm System LCM 2

Blow Description FF Fair Blow Built To 9IN
SI Weak Surface Blow Back
FF Good Blow BOB IN 17 1/2 min
SI Weak Surface Blow Back Built To 1/8 IN

Rec	Feet of	%gas	%oil	%water	%mud
<u>81</u>	<u>MCO</u>	<u>55</u>	<u>55</u>	<u>45</u>	<u>45</u>
<u>124</u>	<u>GMC O</u>	<u>10</u>	<u>50</u>	<u>40</u>	<u>40</u>
<u>31</u>	<u>Gassy oil</u>	<u>10</u>	<u>90</u>		
	<u>189-GIP</u>				

Rec Total 238 BHT 112 Gravity 36 API RW @ °F Chlorides ppm

- (A) Initial Hydrostatic 1934
- (B) First Initial Flow 62
- (C) First Final Flow 92
- (D) Initial Shut-In 966
- (E) Second Initial Flow 113
- (F) Second Final Flow 145
- (G) Final Shut-In 892
- (H) Final Hydrostatic 1886

- Test 1150
- Jars
- Safety Joint
- Circ Sub
- Hourly Standby
- Mileage 77.50
- Sampler
- Straddle
- Shale Packer
- Extra Packer
- Extra Recorder
- Day Standby
- Accessibility
- Sub Total 1227.50

- T-On Location 13:00
- T-Started 13:16
- T-Open 14:43
- T-Pulled 17:13
- T-Out 19:15

Comments Loaded Tool's @ 3:40
on 12-5-12

Initial Open 15
 Initial Shut-In 30
 Final Flow 45
 Final Shut-In 60

- Ruined Shale Packer
- Ruined Packer
- Extra Copies
- Sub Total 0
- Total 1227.50
- MP/DST Disc't

Approved By _____

Our Representative Jeff Brown

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

No. 6278

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

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

Date	11-29-12	Sec.	5	Twp.	12	Range	20	County	ELLIS	State	KANSAS	On Location		Finish	5:45pm
------	----------	------	---	------	----	-------	----	--------	-------	-------	--------	-------------	--	--------	--------

Location ELLIS N TO SLEEPY HOLLOW - 1/2 S. E. / INTO

Lease	CALVERT	Well No.	#1-5	Owner	CARMEN SCHMITT
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				
Hole Size	12 1/4"	T.D.	220'	Charge To	CARMEN SCHMITT
Csg.	8 5/8"	Depth	218'	Street	PO BOX 47
Tbg. Size		Depth		City	GREAT BEND State KS, 67503
Tool		Depth		The above was done to satisfaction and supervision of owner agent or contractor.	
Cement Left in Csg.		Shoe Joint	15'	Cement Amount Ordered	150 COM - 3 1/2" 2 1/2" GEL

Meas Line Displace 13 BBLs

EQUIPMENT

Pumptrk #15	No.	Cementer		Common	150
		Helper	NICK	Poz. Mix	
Bulktrk #14	No.	Driver		Gel.	3
		Driver	LONNIE W.	Calcium	5
Bulktrk #14	No.	Driver			
		Driver	CISCO		

JOB SERVICES & REMARKS

Remarks:	QUALITY SWEDGE DR LOCATION!	Hulls	
Rat Hole		Salt	
Mouse Hole		Flowseal	
Centralizers		Kol-Seal	
Baskets		Mud CLR 48	
D/V or Port Collar		CFL-117 or CD110 CAF 38	
		Sand	
		Handling	158
		Mileage	

CEMENT DID CIRCULATE!

FLOAT EQUIPMENT

Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	

Pumptrk Charge Surface
Mileage 24

THANK YOU!

X Signature *Ag. [Signature]*

Tax	
Discount	
Total Charge	



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: 12/4/2012
 Invoice # 6278

P.O.#:
 Due Date: 1/3/2013
 Division: Russell

Invoice

Contact:
 Carmen Schmitt Inc
Address/Job Location:
 Carmen Schmitt Inc
 P.O. Box 47
 Great Bend Ks 67530

Reference:
 CALVERT 1-5

Description of Work:
 SURFACE JOB

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 991.39	No				
Common-Class A	150	\$ 2,042.23	Yes				
Bulk Truck Matl-Material Service Charge	158	\$ 343.09	No				
Calcium Chloride	5	\$ 258.73	Yes				
Pump Truck Mileage-Job to Nearest Camp	24	\$ 260.05	No				
Bulk Truck Mileage-Job to Nearest Bulk Plant	24	\$ 152.17	No				
Premium Gel (Bentonite)	3	\$ 53.03	Yes				

17980.0001
 710/43
 "Cement Surface Esg"
 well file

Invoice Terms:

Net 30

SubTotal: \$ 4,100.68
 Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (615.10)

SubTotal for Taxable Items:	\$ 2,000.88
SubTotal for Non-Taxable Items:	\$ 1,484.69
Total:	\$ 3,485.58
Tax:	\$ 126.06

6.30% Ellis County Sales Tax

Thank You For Your Business!

Amount Due: \$ 3,611.64
Applied Payments:
Balance Due: \$ 3,611.64

Past Due Invoices are subject to a service charge (annual rate of 24%)
 This does not include any applicable taxes unless it is listed.

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



Invoice

DATE	INVOICE #
12/5/2012	22983

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	#1-5	Calvert	Ellis	Murfin Drilling	Oil	Development	LongString	Nick
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				40	Miles	6.00	240.00
578D-L	Pump Charge - Long String - 3925 Feet				1	Job	1,500.00	1,500.00
221	Liquid KCL (Clayfix)				2	Gallon(s)	25.00	50.00T
281	Mud Flush				500	Gallon(s)	1.25	625.00T
290	D-Air				2	Gallon(s)	35.00	70.00T
402-4	4 1/2" Centralizer				10	Each	65.00	650.00T
403-4	4 1/2" Cement Basket				2	Each	250.00	500.00T
404-4	4 1/2" Port Collar				1	Each	2,400.00	2,400.00T
406-4	4 1/2" Latch Down Plug & Baffle				1	Each	225.00	225.00T
407-4	4 1/2" Insert Float Shoe With Auto Fill				1	Each	300.00	300.00T
419-4	4 1/2" Rotating Head Rental				1	Each	200.00	200.00T
325	Standard Cement				225	Sacks	13.50	3,037.50T
276	Flocele				50	Lb(s)	2.00	100.00T
283	Salt				1,150	Lb(s)	0.20	230.00T
284	Calseal				11	Sack(s)	35.00	385.00T
285	CFR-1				100	Lb(s)	4.00	400.00T
581D	Service Charge Cement				225	Sacks	2.00	450.00
583D	Drayage				471	Ton Miles	1.00	471.00
	Subtotal							11,833.50
	Sales Tax Ellis County						6.30%	577.87
	17980.0001							
	710/43							
	"Cement Pdn Csy"							
	West File							

Thank You For Your Business & Best Wishes For A Wonderful Holiday Season!!

Total \$12,411.37



CHARGE TO: *Carmen Schmidt*
 ADDRESS:
 CITY, STATE, ZIP CODE:

TICKET
 N^o 22983

1. <i>Hays, Ks</i>	WELL/PROJECT NO. <i>#1-5</i>	LEASE <i>Calvert</i>	COUNTY/PARISH <i>Ellis</i>	STATE <i>Ks</i>	CITY	DATE <i>12-5-12</i>	OWNER <i>same</i>
2. <i>Ness City, Ks</i>	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR <i>Murfin Drlg #</i>	RIG NAME/NO.	SHIPPED VIA <i>2 T</i>	DELIVERED TO <i>Location</i>	ORDER NO.	
3.	WELL TYPE <i>oil</i>	WELL CATEGORY <i>Development</i>	JOB PURPOSE <i>Longstring</i>	WELL PERMIT NO.	WELL LOCATION		
4.	REFERRAL LOCATION	INVOICE INSTRUCTIONS					

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575		1			MILEAGE <i>#111</i>	40		mi		6 ⁰⁰	240 ⁰⁰
578		1			Pump Charge (Longstring)	1		cu	3925 ⁰⁰	1500 ⁰⁰	7500 ⁰⁰
221		1			KCL	2		gal		25 ⁰⁰	50 ⁰⁰
281		1			Mudflush	500		gal		1 ²⁵	625 ⁰⁰
290		1			D-Air	2		gal		35 ⁰⁰	70 ⁰⁰
402		1			Centralizers	10		ea	4 1/2"	65 ⁰⁰	650 ⁰⁰
403		1			Baskets	2		ea		250 ⁰⁰	500 ⁰⁰
404		1			Port Collar	1		ea		2400 ⁰⁰	2400 ⁰⁰
406		1			L D Plug & Baffle	1		ea		225 ⁰⁰	225 ⁰⁰
407		1			Insert Float Shoe w/kill	1		ea		300 ⁰⁰	300 ⁰⁰
419		1			Rotating Head	1		ea		200 ⁰⁰	200 ⁰⁰

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

x *Curtis Hetchman*
 DATE SIGNED *12-5-12* TIME SIGNED *2:45* 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	DIS-AGREE		AMOUNT
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				PAGE TOTAL 1	6760 ⁰⁰
WE UNDERSTOOD AND MET YOUR NEEDS?				page 2	5673 ⁵⁰
OUR SERVICE WAS PERFORMED WITHOUT DELAY?				subtotal	11,833 ⁵⁰
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				Ellis TAX 6.3%	577 ⁸⁷
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES	<input type="checkbox"/> NO		TOTAL	12,411 ³⁷
<input type="checkbox"/> 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 ticket.

SWIFT OPERATOR *Mike Koider* APPROVAL

Thank You!



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

TICKET CONTINUATION

TICKET No. 22983

CUSTOMER *Carmer Schmidt* WELL *#1-5 Calvert* DATE *12-5-12* PAGE *2* OF *2*

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	QTY.		U/M		UNIT PRICE		AMOUNT	
		LOC	ACCT	DF										
325		2				Standard Cement	225	sk			13	50	3037	50
276		2				Floccle	50	#	4	1/2	2	00	100	00
283		2				Salt	1150	#	10	1/2	2	00	230	00
284		2				Calscal	11	sk	5	1/2	35	00	385	00
285		2				CFR-1	100	#	1/2	1/2	4	00	400	00
581		2				SERVICE CHARGE	225	sk			2	00	450	00
583		2				MILEAGE CHARGE					1	00	471	00

CONTINUATION TOTAL *5083 50*

JOB LOG

SWIFT Services, Inc.

DATE 12-5-12 PAGE NO. 7

CUSTOMER *Carmen Schmidt* WELL NO. #1-5 LEASE *Calvent* JOB TYPE *Long string* TICKET NO. *22983*

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1630							on loc w/ FF
								RTD 3925' LTD 3922'
								4 1/2" x 11.6" x 3913' x 23'
								Cent 4, 6, 8, 10, 12, 14, 16, 52, 54
								Back 2, 51
								P.C. 57 @ 1687
	1815							start FF
	2010							Break Circ
	2100	2	714					Plug RH & MH 30/15 sks EA-2
	2110	5	0			200		Start 50 gal Mudflush
		5	1210			200		Start 20 bbl KCL Flush
		5	2010			200		Start 180 sks EA-2 cement
	2125		45					End Cement
								Wash P/L
								Drop L.D. Plug
	2130	6	0			200		Start Displacement
		5	40			250		Catch Cement
	2140		60			750/750		Land Plug
								Release Pressure
								Float Hold

Thank you

Nick, David E.



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



Invoice

DATE	INVOICE #
12/13/2012	22963

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	#1-5	Calvert	Ellis	DS&W Well Servi...	Oil	Development	4-1/2" Port Collar	Josh
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				20	Miles	6.00	120.00
576D-D	Pump Charge - Port Collar				1	Job	1,250.00	1,250.00
290	D-Air				2	Gallon(s)	35.00	70.00T
105	Port Collar Tool Rental With Man				1	Each	350.00	350.00T
276	Flocele				75	Lb(s)	2.00	150.00T
330	Swift Multi-Density Standard (MIDCON II)				185	Sacks	16.50	3,052.50T
581D	Service Charge Cement				250	Sacks	2.00	500.00
583D	Drayage				498	Ton Miles	1.00	498.00
	Subtotal							5,990.50
	Sales Tax Ellis County						6.30%	228.22
	17985.0001 710/43 "Cement top stage" W2K File							

Thank You For Your Business & Best Wishes For A Wonderful Holiday Season!!

Total	\$6,218.72
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CHARGE TO: Larmer Schmitt
 ADDRESS:
 CITY, STATE, ZIP CODE:

TICKET
 No 22963

PAGE 1 OF 1

SERVICE LOCATIONS 1. <u>Heys ks</u>	WELL/PROJECT NO. <u>1-5</u>	LEASE <u>Calvert</u>	COUNTY/PARISH <u>Ellis</u>	STATE <u>KS</u>	CITY	DATE <u>12-13-12</u>	OWNER
2. <u>Ness City ks</u>	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR <u>D.S. + W.</u>	RIG NAME/NO.	SHIPPED VIA <u>CT</u>	DELIVERED TO <u>Location</u>	ORDER NO.	
3.	WELL TYPE <u>0:1</u>	WELL CATEGORY <u>Develop</u>	JOB PURPOSE <u>4 1/2 Port collar</u>	WELL PERMIT NO.	WELL LOCATION <u>Ellis SN, 1w, 3/4 N Empo</u>		
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT	
		LOC	ACCT	DF								
<u>575</u>		<u>1</u>			<u>MILEAGE # 112</u>	<u>20</u>		<u>mi</u>		<u>6.00</u>	<u>120</u>	<u>.00</u>
<u>5760</u>		<u>1</u>			<u>Port Collar Pump Charge</u>	<u>1</u>		<u>ea</u>		<u>1250.00</u>	<u>1250</u>	<u>.00</u>
<u>290</u>		<u>1</u>			<u>D-Asr</u>	<u>2</u>		<u>gal</u>		<u>35.00</u>	<u>70</u>	<u>.00</u>
<u>105</u>		<u>1</u>			<u>Port Collar Tool Rental with Man</u>	<u>1</u>		<u>ea</u>		<u>350.00</u>	<u>350</u>	<u>.00</u>
<u>276</u>		<u>2</u>			<u>flouele</u>	<u>75</u>		<u>lbs</u>		<u>2.00</u>	<u>150</u>	<u>.00</u>
<u>330</u>		<u>2</u>			<u>Swift Multi-Density</u>	<u>185</u>		<u>stks</u>		<u>16.50</u>	<u>3052</u>	<u>.00</u>
<u>581</u>		<u>2</u>			<u>Service Charge Cement</u>	<u>250</u>		<u>stks</u>		<u>2.00</u>	<u>500</u>	<u>.00</u>
<u>583</u>		<u>2</u>			<u>Drayage</u>	<u>498</u>		<u>tm</u>		<u>1.00</u>	<u>498</u>	<u>.00</u>

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

x Curtis Z. Hutchinson
 DATE SIGNED 12-13-12 TIME SIGNED 1045
 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	DIS-AGREE
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		
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND			

PAGE TOTAL	<u>5990</u>	<u>50</u>
TOTAL	<u>6218</u>	<u>72</u>

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

SWIFT OPERATOR: John Brunner APPROVAL: _____

Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 12-13-12 PAGE NO. 1

CUSTOMER Carmen Schmitt WELL NO. 1-5 LEASE Calvert JOB TYPE 4 1/2 Port Collar TICKET NO. 22963

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1045							on location
								Port Collar @ 1688 4 1/2 x 2 3/4
	1140							Start open tool
	1220							locate Port Collar
	1235				✓		1000	Pressure test
	1240	3			-		200	open Port Collar
			8	✓				circulation
	1245	4	90	✓		500		Start cement
			8	✓				circulation
	1305		5.5					Displace
	1310				✓		1000	Close Port Collar hold
	1315							run 4 joints
	1320	3	20		✓		500	Reverse out clean
	1340							Pull tool
								circulate 25 to pit
								mixed 185 sts
	1400							Job complete
								Thank You
								Josh, Juan, Rob

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



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

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

Sam Brownback, Governor

February 21, 2013

Carmen Schmitt
Carmen Schmitt, Inc.
PO BOX 47
GREAT BEND, KS 67530-0047

Re: ACO1
API 15-051-26435-00-00
Calvert 1-5
NW/4 Sec.05-12S-20W
Ellis County, Kansas

Dear Production Department:

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

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

Respectfully,
Carmen Schmitt