



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1102948  
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
-----------------------------------	-----------------	---

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: \_\_\_\_\_



1102948

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 <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
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:				

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:  Yes  No

Date of First, Resumed Production, SWD or ENHR. \_\_\_\_\_ Producing Method:  
 Flowing     Pumping     Gas Lift     Other *(Explain)* \_\_\_\_\_

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <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> <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
--	---	---

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

December 05, 2012

Leon Rodak  
Murfin Drilling Co., Inc.  
250 N WATER STE 300  
WICHITA, KS 67202-1216

Re: ACO1  
API 15-039-21157-00-00  
Schwab 'A' 2-5  
SW/4 Sec.05-02S-26W  
Decatur 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,  
Leon Rodak

Schwab 'A' #2-5 550 FSL 2310 FWL Sec. 5-T2S-R26W 2594' KB	Schwab 'A' #1-5 1580 FSL 2050 FWL Sec. 5-T2S-R26W 2570' KB
--	---

Formation	Sample top	Datum	Ref	Log Top	Datum	Ref	Log Top	Datum
Anhydrite	2037	+557	-1	2041	+553	-5	2012	+558
B/Anhydrite	2070	+524	-3	2070	+524	-3	2043	+527
Topeka	3183	-589	-3	3184	-590	-4	3156	-586
Heebner	3346	-752	-2	3350	-756	-6	3320	-750
Lansing	3387	-793	-3	3388	-794	-4	3360	-790
BKC	3591	-997	-5	3592	-998	-6	3562	-992
RTD	3690						3660	
LTD				3683			3661	

# Jeff Christian

## PETROLEUM GEOLOGIST

Wichita, Kansas

### GEOLOGISTS' REPORT

DRILLING TIME AND SAMPLE LOG

OPERATOR	MURFIN DRILLING COMPANY	ELEVATIONS	RM 2594'
LEASE	SCHWAB A # 2-5	GL	2589'
LOCATION	550' FSL & 2310' FWL	MEASUREMENTS FROM KB	
SEC.	5 TWP 2 S	RING	26 W
COUNTY	DECATUR	STATE	KANSAS
FIELD	LESTER SOUTH	CASING RECORD	
API	15-039-21157	Conductor	NONE
CONTRACTOR	COMPANY TOOLS	Surface	8.5/8" @ 262'
DRILLING STARTED	8/17/2012	WI/210 SX	
MUD DISPOSED	2598	Production	1 1/2" @ 3675'
DRILLING TIME LEFT FROM	3000'	WI/190 SX	
SAMPLING TIME LEFT FROM	3000'	LOG TECH. INC.	
SAMPLES EXAMINED FROM	3000'	DIL	
GEOLOGICAL SUPERVISION FROM	3200'	CNL/CPL	
FORMATION NAME	LOG	SAMPLE	
ANHYDRITE	TOP DATE	TOP DATE	TOP DATE
BASE ANHYDRITE	2040' (-554)	2039' (-555)	
TOPEKA	3184' (-523)	3183' (-524)	
HEEBNER	3380' (-756)	3346' (-782)	
TOTONTO	3379' (-785)	3378' (-793)	
LANSING	3388' (-794)	3387' (-793)	
STARK	3546' (-952)	3546' (-952)	
BKC	3592' (-998)	3591' (-997)	
TOTAL DEPTH	3683' (-1089)	3690' (-1096)	

DATE	7:00 AM DEPTH	REMARKS
8/17/12	MIRT	SPUD 4:30 pm
8/18/12	330'	DRLG dev. 1/2 deg. @ 262'
8/19/12	1760'	DRLG
8/20/12	2970'	DRLG
8/21/12	3399'	OB w/ DST #1 dev. 1/2 deg. @ 3399'
8/22/12	3495'	DRLG
8/23/12	3690'	TOH for LOG RTD 3690' @ 4:30 am dev. 1/4 deg. @ 3690'

**Remarks**

5 1/2" production casing set to further test the Lansing / KC formation.

Electric log measurements correlate about 1' deep compared to rotary measurements. Sample tops adjusted to the electric log.

Samples deposited at the Kansas Geological Survey.

Respectfully Submitted,  
*Jeff Christian*  
 Jeff Christian

LITH	DRILL TIME (MIN-FT)	DEPTH	SAMPLE DESCRIPTIONS	REMARKS
		2050		ANHYDRITE 2039' (+555) E Log 2040' (+554)
				Base ANHYDRITE 2070' (+524) E Log 2071' (+523)
		3100	Ls: crm-lt gry-gry, fn xln, dns, foss in part, pr vis por, ns w/ Sh: gry-drk gry	
			Ls: lt gry, some crm-lt brn, yell stnd in part, fn xln, dns, foss, pr vis por, ns w/ Sh: red & sltstr: prpl/red-lt gry	
			Ls: lt gry-gry, some crm, fn xln, sli gmlr, part dns, vy foss, pr vis por, ns	
			Ls: crm-lt gry, fn xln, sli gmlr, part dns, sli foss, sct pp-vug por, ns, fr amnt wt chlk	
			Sh: red, gummy	
		3150	Ls: crm-lt gry, fn xln, chiky, foss-ool in part, pr-fr intrpart-vug por, 2-3 pcs/tray w/ sptd brn stn, nsfo, no odor	
			Ls: crm-lt gry, fn xln, gmlr, subchiky, foss, pr-fr pp-vug por, ns	
			Sh: red, gummy	
			Ls: wt-crm-lt gry, fn xln, vy foss-ool, gluc in part, pr-fr intrpart-vug por, 1 pc w/ sli stn, nsfo (from above?)	
		3200	Ls: wt-crm-lt gry, fn xln, part dns, chiky, foss-ool w/ red sh stn	TOPEKA 3183' (-589) E Log 3184' (-590)
			Sh: red-brn, gummy	
			Sh: as above w/ Ls: crm-lt gry, fn xln, dns, sli foss-ool in part, pr vis por, ns	
			Ls: crm-lt brn-lt gry, fn xln, part dns, vy ool-foss in part, pr-fr intrpart-vug por, ns w/ sct wt chlk	
			Some	
		3250	Ls: crm-lt gry, fn xln, dns, foss-ool in part, pr vis por, ns	
			Ls: crm-lt gry, fn xln, sli gmlr, subchiky, foss, pr intrxln-vug por, ns	
			Ls: crm-lt gry-gry, fn xln, dns, sli foss, pr vis por, ns fr amnt Sh: blk, carb (3300' smp)	
			Sh: red-brn-grn, sndy-silty in part	
		3300	Ls: lt brn-lt gry, fn xln, dns, foss-mott, sndy in part, no vis por, ns	
			Sh: red-brn, some gry & grn	
			Ls: crm-lt gry, fn xln, part dns, foss-ool, pr intrpart por, ns	Morgan Mud @ 3324': 8/20/12 Wt: 8.9, Vis: 58, WL: 6.4, Chl: 3,500, LCM: 5
			Ls: lt gry, fn xln, ool, pr-fr introol-vug por, sli-fr sfo, sli odor, brn-drk brn substat-sat stn	Pipe Strap @ 3399': 71' long to board
			Ls: as above w/ incns Ls: wt-crm, fn xln, sli gmlr, chiky, sli foss, pr-trc fr pp-vug por, ns	
			vy sct Sh: blk, carb	HEEBNER 3349' (-755) E Log 3350' (-756)
			Sh: gry-grn, some red & brn	
			Sh: red-brn-gry-grn	Morgan Mud @ 3399': 8/21/12 Wt: 9.0, Vis: 48, WL: 6.4, Chl: 2,000, LCM: 4
			Ls: crm, fn xln, subchiky, ool in part, pr trc fr pp-vug introol por, sli-fr sfo, fnt odor, brn-drk brn sptd-sat stn	TORONTO 3378' (-784) E Log 3379' (-785)
			Ls: crm-lt gry, fn xln, ool-oolmid, fr oolmid-some vug por, gsfo, fnt odor, brn-drk brn sptd-sat stn, some barren oolmid por	LANSING 3387' (-793) E Log 3388' (-794)
			Ls: crm-lt gry, fn xln, dns, subchiky w/ chrt: gry-brn, pr vis por, ns	DST #1 3321' to 3399' (Oreod - Luns 'A') 15'-60"-15'-60" IF: BOB/ 12" ISI: No Return FF: BOB/20" FSI: Surface Blow RECOVERY: 511' total fluid 10' Clean Oil 315' OCWA (20%O, 30%W, 50%M) 186' MW (90%W, 10%M) IFP: 65-159# ISIP: 812# FFP: 159-254# FHP: 790# IHP: 1576# FHP: 1548# BHT: 95 deg F CHL: 65,000 ppm (mudman)
			Sh: red-brn-grn, some gry w/ Ls: lt gry-grn/gry-brn, fn xln, dns, sndy, pr vis por, blk dead stn	DST #2 3396' to 3440' (LKC 'B & D') 30"-60"-30"-60" IF: Blow Built to 3/4" ISI: No Return FF: No Blow FSI: No Return RECOVERY: 65' Mud no IFP: 19-32# ISIP: 1064# FFP: 34-49# FHP: 1040# IHP: 1680# FHP: 1619# BHT: 95 deg. F
			Ls: crm-lt gry, fn xln, ool in part, pr-trc fr introol-vug por, ssfo, fnt odor, brn sptd-sat stn, some blk sptd stn	
			Ls: crm-lt brn, fn xln, sli foss-trc ool, vy chrt: blu-gry, pr vis por, ssfo, fr-gd odor (sli sour?), abndnt brn sat stn	
			Ls: as above, sli mone foss, vy sct foss-vug por, ssfo, fr-gd odor, abndnt brn sat stn	
			Sh: red-brn-grn, some sltstr: tan-lt prpl	
		3450	Sh: as above, gummy in part	
			Ls: wt-lt gry, fn xln, dns, foss-ool in part, pr vis por, ns	
			Ls: crm-lt gry, fn xln, dns, some strikd w/ red sh, no vis por, ns	
			Ls: crm-lt gry-grn/gry, fn xln, dns, chiky in part, foss-ool in part, some yell ool, pr vis por, ns	Morgan Mud @ 3505': 8/22/12 Wt: 8.9, Vis: 64, WL: 6.0, Chl: 2,000, LCM: 6
			Sh: red-brn, gummy	
		3500	Ls: ool-lt brn, fn xln, part dns, part chiky, foss-sli ool, pr-fr intrpart-vug por, sfo, fr odor, brn substat stn	DST #3 3475' to 3580' (LKC 'H - K') 15'-60"-15'-60" IF: BOB/ 30 sec. ISI: No Return FF: BOB/ 15 sec. FSI: No Return RECOVERY: 2350' total fluid 372' M&WCO (50%O, 30%W, 20%M) 372' SMCWCO (15%O, 60%W, 20%W, 5%M) 496' CGO (20%G, 80%O) 738' SMCW (95%W, 5%M) IFP: 245-298# ISIP: 1139# FFP: 1091-1066# FHP: 1098# IHP: 1680# FHP: 1688# BHT: 100 deg. F
			Ls: crm-lt brn-gry/grn, fn xln, dns, subchiky, foss in part, no vis por, ns	
			Sh: red-lt gry, vy gummy	
			Some	
			Ls: wt-crm-lt gry, fn xln, dns, chiky in part, vy sct pcs sli foss-ool, pr vis por, nsfo, no odor, vy sctlt brn sptd stn	STARK 3546' (-952) E Log 3546' (-952)
			Sh: red-brn, gummy in part, some gry & gry	
			Ls: some gd intrpart-vug por, sli-fr sfo, fr odor, gd drk brn sat stn	
			Ls: fr-med xln, foss, vy calcitic, fr-gd por, ssfo, sli odor, lt brn-substat-sat stn	
			Ls: crm-lt gry, fn xln, part dns, part chiky, some red & yell stnd, foss-mott, pr vis por, ns	BKC 3591' (-997) E Log 3592' (-998)
			Sct Sst: brn, some gry & grn	
		3600	Sh: red-lt gry-tan, vy fn grn, calc, fri-mushy, pr vis por, ns	
			Ls: crm-lt gry, fn xln, dns, sli chiky, foss in part, pr vis por, ns	
			Sh: red-brn	
			Ls: crm-lt gry, fn xln, dns, sli foss, pr vis por, ns	
			Sh: red-brn, gummy in part w/ Ls: fn xln, dns, sndy, pr vis por, ns	
			Some	
		3650	Sh: red-brn, gummy in part	
			Ls: wt-crm-lt gry, fn xln, dns, chiky in part, sndy in part, pr vis por, ns	Morgan Mud @ 3690': 8/23/12 Wt: 8.8, Vis: 65, WL: 4.8, Chl: 3,600, LCM: 4
			Sh: red-brn, gummy in part	
			Sh: red-brn-prpl	
			Ls: wt-crm-lt gry, fn xln, dns, chiky in part, sndy in part, pr vis por, ns	RTD 3690' (-1096) E Log 3683' (-1089)
		3700		





## DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling, Co**

250 N Water STE #300  
Wichita, KS 67202

ATTN: Jeff Christian

### **Schwab 'A' #2-5**

#### **5-2s-26w Decatur, KS**

Start Date: 2012.08.21 @ 03:30:00

End Date: 2012.08.21 @ 11:43:15

Job Ticket #: 45649                      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.08.27 @ 14:15:17



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Murfin Drilling, Co  
 250 N Water STE #300  
 Wichita, KS 67202  
 ATTN: Jeff Christian

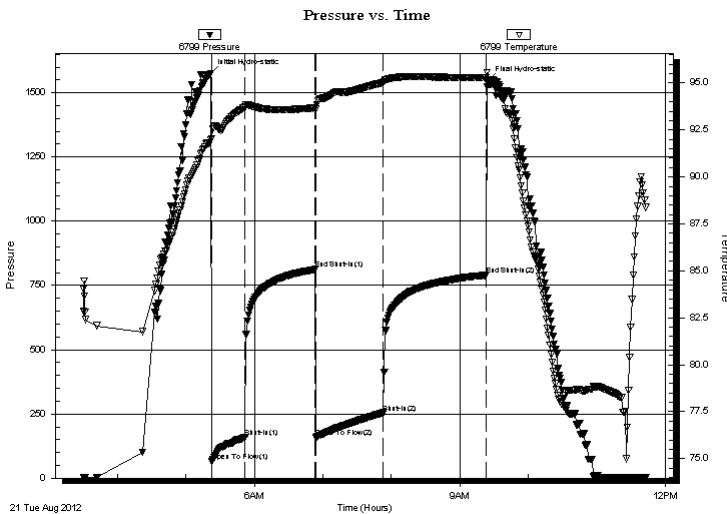
**5-2s-26w Decatur, KS**  
**Schwab 'A' #2-5**  
 Job Ticket: 45649 **DST#: 1**  
 Test Start: 2012.08.21 @ 03:30:00

## GENERAL INFORMATION:

Formation: **Oread, Toronto, LKC**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 05:22:45  
 Time Test Ended: 11:43:15  
 Interval: **3321.00 ft (KB) To 3399.00 ft (KB) (TVD)**  
 Total Depth: 3399.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Kevin Mack  
 Unit No: 43  
 Reference Elevations: 2594.00 ft (KB)  
 2589.00 ft (CF)  
 KB to GR/CF: 5.00 ft

**Serial #: 6799 Inside**  
 Press @ Run Depth: 254.61 psig @ 3322.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2012.08.21 End Date: 2012.08.21 Last Calib.: 2012.08.21  
 Start Time: 03:30:05 End Time: 11:43:14 Time On Btm: 2012.08.21 @ 05:21:45  
 Time Off Btm: 2012.08.21 @ 09:24:15

**TEST COMMENT:** 30 - IF- BoB in 12 min.  
 60 - IS- No Return  
 60 - FF- BoB in 20 min.  
 90 - FS- Surface Return started at 7 min. Died at 45 min.



## PRESSURE SUMMARY

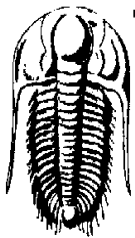
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1576.03	91.95	Initial Hydro-static
1	65.26	92.02	Open To Flow (1)
30	159.07	93.72	Shut-In(1)
91	812.75	93.68	End Shut-In(1)
92	159.73	93.61	Open To Flow (2)
151	254.61	95.03	Shut-In(2)
241	790.42	95.29	End Shut-In(2)
243	1548.83	95.15	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
186.00	MW 10M 90W	0.91
315.00	OCWM 50M 30W 20o	4.42
10.00	Free Oil 100o	0.14

## Gas Rates

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



**TRILOBITE TESTING, INC.**

## DRILL STEM TEST REPORT

Murfin Drilling, Co  
250 N Water STE #300  
Wichita, KS 67202  
ATTN: Jeff Christian

5-2s-26w Decatur, KS

**Schwab 'A' #2-5**  
Job Ticket: 45649 **DST#: 1**  
Test Start: 2012.08.21 @ 03:30:00

### GENERAL INFORMATION:

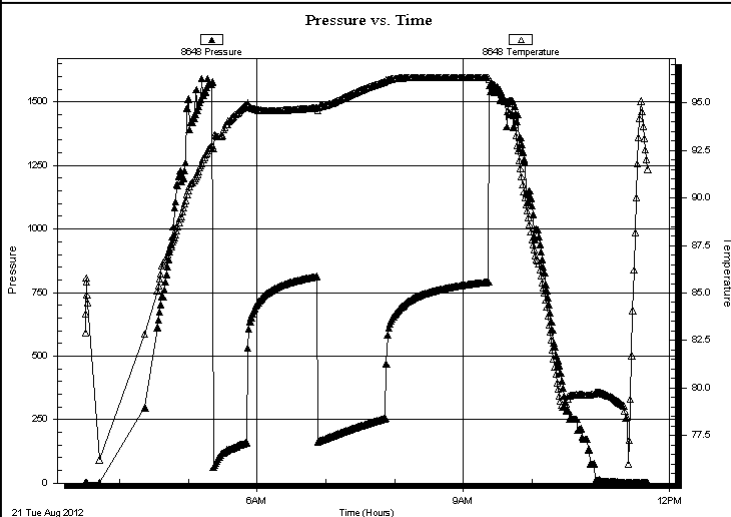
Formation: **Oread, Toronto, LKC**  
Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Initial)  
Time Tool Opened: 05:22:45 Tester: Kevin Mack  
Time Test Ended: 11:43:15 Unit No: 43  
**Interval: 3321.00 ft (KB) To 3399.00 ft (KB) (TVD)** Reference Elevations: 2594.00 ft (KB)  
Total Depth: 3399.00 ft (KB) (TVD) 2589.00 ft (CF)  
Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 5.00 ft

### Serial #: 8648

Inside

Press @ Run Depth: psig @ 3322.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2012.08.21 End Date: 2012.08.21 Last Calib.: 2012.08.21  
Start Time: 03:30:05 End Time: 11:41:14 Time On Btm:  
Time Off Btm:

TEST COMMENT: 30 - IF- BoB in 12 min.  
60 - IS- No Return  
60 - FF- BoB in 20 min.  
90 - FS- Surface Return started at 7 min. Died at 45 min.



### PRESSURE SUMMARY

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

### Recovery

Length (ft)	Description	Volume (bbl)
186.00	MW 10M 90W	0.91
315.00	OCWM 50M 30W 20o	4.42
10.00	Free Oil 100o	0.14

### Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Murfin Drilling, Co

**5-2s-26w Decatur, KS**

250 N Water STE #300  
Wichita, KS 67202

**Schwab 'A' #2-5**

Job Ticket: 45649

**DST#: 1**

ATTN: Jeff Christian

Test Start: 2012.08.21 @ 03:30:00

## Tool Information

Drill Pipe:	Length: 3121.00 ft	Diameter: 3.80 inches	Volume: 43.78 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 186.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 44.69 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3321.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	78.00 ft			
Tool Length:	107.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments: Tool slid approx 10' to Bottom

## 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			3293.00	
Shut In Tool	5.00			3298.00	
Hydraulic tool	5.00			3303.00	
Jars	5.00			3308.00	
Safety Joint	3.00			3311.00	
Packer	5.00			3316.00	29.00 Bottom Of Top Packer
Packer	5.00			3321.00	
Stubb	1.00			3322.00	
Recorder	0.00	8648	Inside	3322.00	
Recorder	0.00	6799	Inside	3322.00	
Perforations	7.00			3329.00	
Change Over Sub	1.00			3330.00	
Drill Pipe	63.00			3393.00	
Change Over Sub	1.00			3394.00	
Bullnose	5.00			3399.00	78.00 Bottom Packers & Anchor

**Total Tool Length: 107.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Murfin Drilling, Co

**5-2s-26w Decatur, KS**

250 N Water STE #300  
Wichita, KS 67202

**Schwab 'A' #2-5**

Job Ticket: 45649

**DST#: 1**

ATTN: Jeff Christian

Test Start: 2012.08.21 @ 03:30:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

28 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

18000 ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.38 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3500.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
186.00	MW 10M 90W	0.915
315.00	OCWM 50M 30W 20o	4.419
10.00	Free Oil 100o	0.140

Total Length: 511.00 ft      Total Volume: 5.474 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Oil API 31 @ 90 deg= 28 cor.

RW .32 @ 84 = 28000ppm

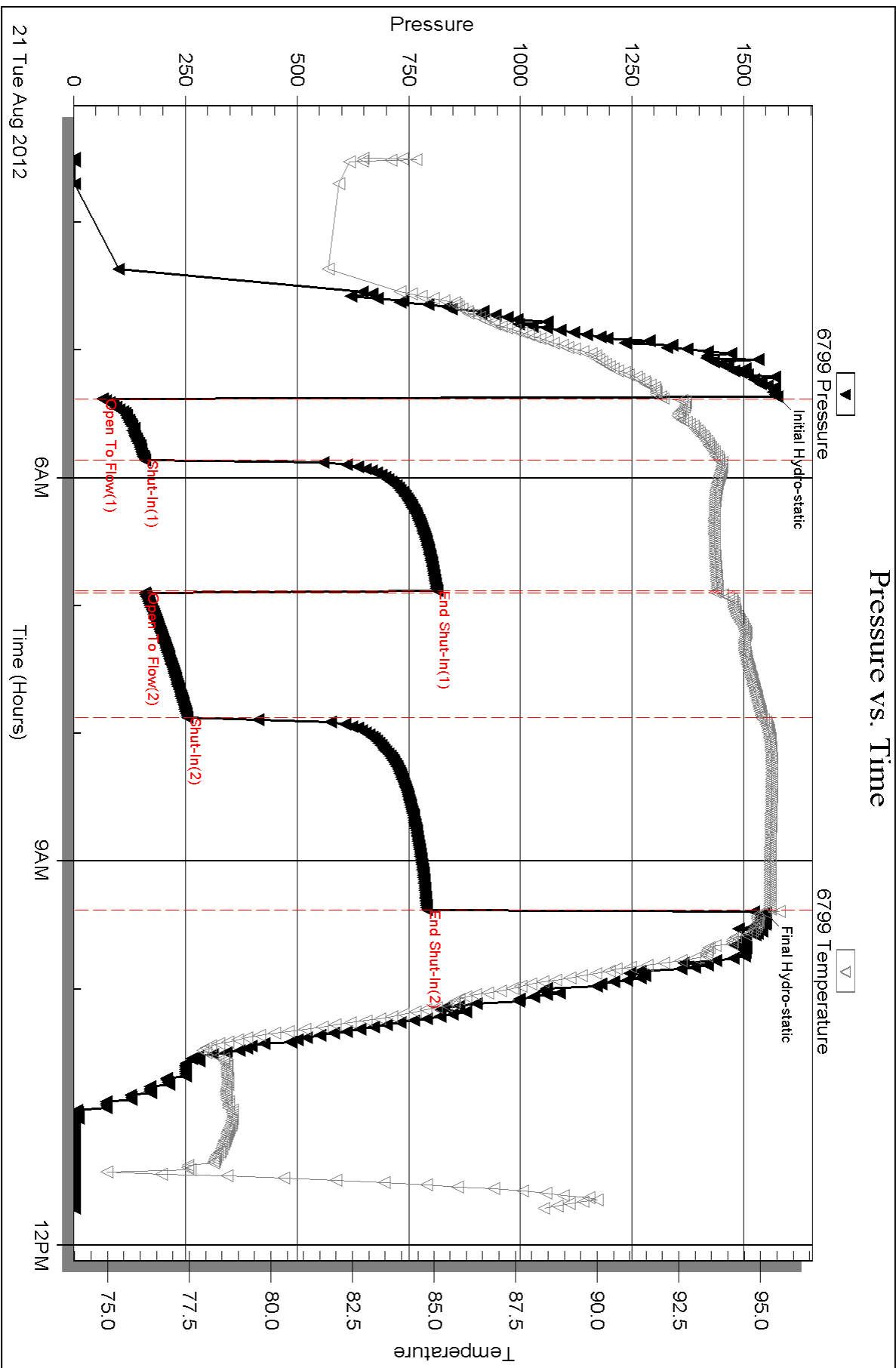
Serial #: 6799

Inside

Murfin Drilling, Co

Schw ab 'A' #2-5

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 45649

Printed: 2012.08.27 @ 14:15:21

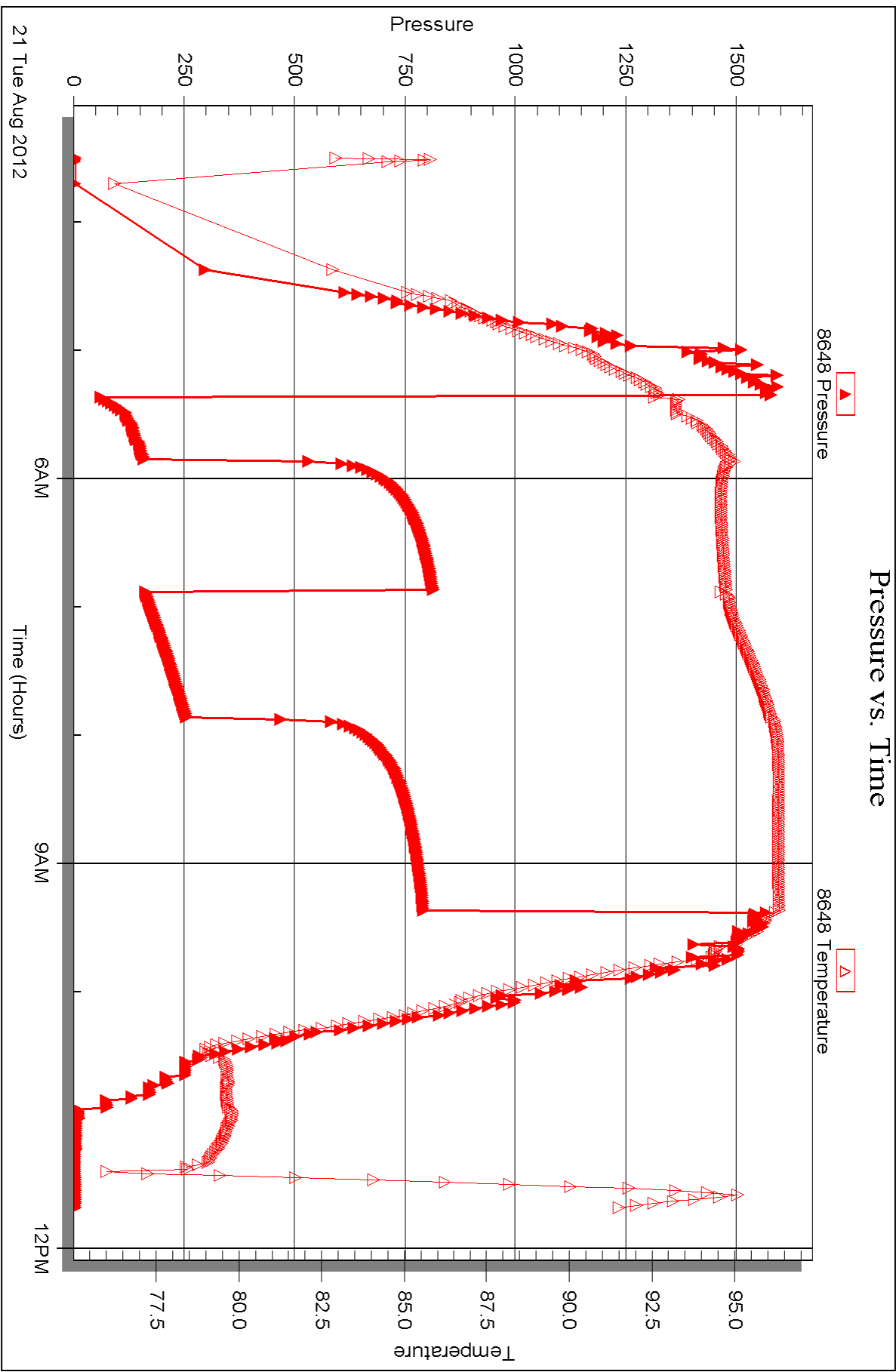
Serial #: 8648

Inside

Murfin Drilling, Co

Schwab 'A' #2-5

DST Test Number: 1





## DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling, Co**

250 N Water STE #300  
Wichita, KS 67202

ATTN: Jeff Christian

### **Schwab 'A' #2-5**

#### **5-2s-26w Decatur, KS**

Start Date: 2012.08.21 @ 19:26:00

End Date: 2012.08.22 @ 02:05:15

Job Ticket #: 45650                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.08.27 @ 14:08:01

Murfin Drilling, Co  
5-2s-26w Decatur, KS  
Schwab 'A' #2-5  
DST # 2  
LKC" B-D"  
2012.08.21



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Murfin Drilling, Co  
250 N Water STE #300  
Wichita, KS 67202  
ATTN: Jeff Christian

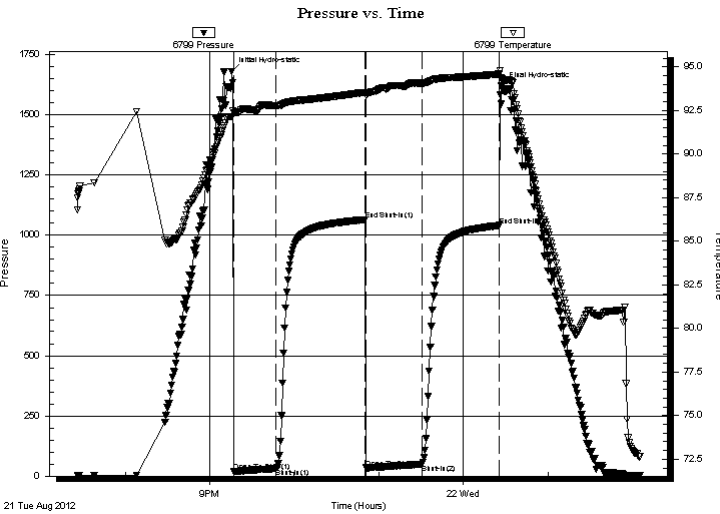
**5-2s-26w Decatur, KS**  
**Schwab 'A' #2-5**  
Job Ticket: 45650      **DST#: 2**  
Test Start: 2012.08.21 @ 19:26:00

## GENERAL INFORMATION:

Formation: **LKC "B-D"**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 21:17:00  
Time Test Ended: 02:05:15  
Interval: **3396.00 ft (KB) To 3440.00 ft (KB) (TVD)**  
Total Depth: 3440.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Good  
Test Type: Conventional Bottom Hole (Initial)  
Tester: Kevin Mack  
Unit No: 43  
Reference Elevations: 2594.00 ft (KB)  
2589.00 ft (CF)  
KB to GR/CF: 5.00 ft

**Serial #: 6799      Inside**  
Press @ Run Depth: 49.14 psig @ 3397.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2012.08.21      End Date: 2012.08.22      Last Calib.: 2012.08.22  
Start Time: 19:26:05      End Time: 02:05:14      Time On Btm: 2012.08.21 @ 21:15:30  
Time Off Btm: 2012.08.22 @ 00:27:00

**TEST COMMENT:** 30 - IF- Weak surface Blow built to 3/4"  
60 - IS- No Return  
30 - FF- No Blow  
60 - FS- No Return



## PRESSURE SUMMARY

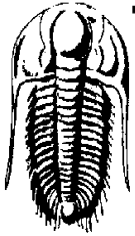
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1680.85	92.16	Initial Hydro-static
2	19.31	92.36	Open To Flow (1)
32	32.02	92.77	Shut-In(1)
95	1064.33	93.54	End Shut-In(1)
96	34.28	93.37	Open To Flow (2)
135	49.14	94.07	Shut-In(2)
190	1040.52	94.58	End Shut-In(2)
192	1619.14	94.34	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
65.00	Mud 100M	0.32

## Gas Rates

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



# TRILOBITE TESTING, INC.

## DRILL STEM TEST REPORT

Murfin Drilling, Co

5-2s-26w Decatur, KS

250 N Water STE #300  
Wichita, KS 67202

Schwab 'A' #2-5

Job Ticket: 45650

DST#: 2

ATTN: Jeff Christian

Test Start: 2012.08.21 @ 19:26:00

### GENERAL INFORMATION:

Formation: LKC "B-D"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:17:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Kevin Mack

Time Test Ended: 02:05:15

Unit No: 43

Interval: 3396.00 ft (KB) To 3440.00 ft (KB) (TVD)

Reference Elevations: 2594.00 ft (KB)

Total Depth: 3440.00 ft (KB) (TVD)

2589.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8648 Inside

Press @ Run Depth: psig @ 3397.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.08.21 End Date: 2012.08.22

Last Calib.: 2012.08.22

Start Time: 19:26:35 End Time: 02:03:59

Time On Btm:

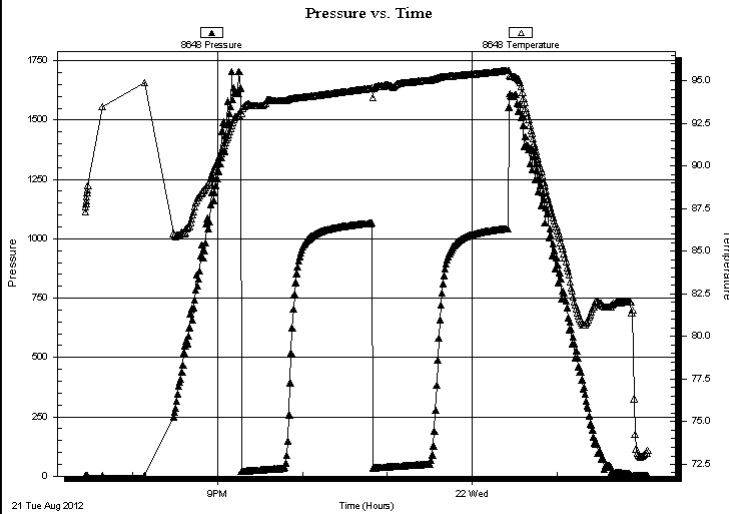
Time Off Btm:

TEST COMMENT: 30 - IF- Weak surface Blow built to 3/4"

60 - IS- No Return

30 - FF- No Blow

60 - FS- No Return



### PRESSURE SUMMARY

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

### Recovery

Length (ft)	Description	Volume (bbl)
65.00	Mud 100M	0.32

### Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Murfin Drilling, Co  
250 N Water STE #300  
Wichita, KS 67202  
ATTN: Jeff Christian

**5-2s-26w Decatur, KS**  
**Schwab 'A' #2-5**  
Job Ticket: 45650      **DST#: 2**  
Test Start: 2012.08.21 @ 19:26:00

**Tool Information**

Drill Pipe:	Length: 3186.00 ft	Diameter: 3.80 inches	Volume: 44.69 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 186.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose: 54000.00 lb
			<u>Total Volume: 45.60 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3396.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	44.00 ft			
Tool Length:	73.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

<b>Tool Description</b>	<b>Length (ft)</b>	<b>Serial No.</b>	<b>Position</b>	<b>Depth (ft)</b>	<b>Accum. Lengths</b>
-------------------------	--------------------	-------------------	-----------------	-------------------	-----------------------

Change Over Sub	1.00			3368.00	
Shut In Tool	5.00			3373.00	
Hydraulic tool	5.00			3378.00	
Jars	5.00			3383.00	
Safety Joint	3.00			3386.00	
Packer	5.00			3391.00	29.00      Bottom Of Top Packer
Packer	5.00			3396.00	
Stubb	1.00			3397.00	
Recorder	0.00	8648	Inside	3397.00	
Recorder	0.00	6799	Inside	3397.00	
Perforations	5.00			3402.00	
Change Over Sub	1.00			3403.00	
Drill Pipe	31.00			3434.00	
Change Over Sub	1.00			3435.00	
Bullnose	5.00			3440.00	44.00      Bottom Packers & Anchor

**Total Tool Length: 73.00**





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Murfin Drilling, Co

**5-2s-26w Decatur, KS**

250 N Water STE #300  
Wichita, KS 67202

**Schwab 'A' #2-5**

Job Ticket: 45650

**DST#: 2**

ATTN: Jeff Christian

Test Start: 2012.08.21 @ 19:26:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.39 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
65.00	Mud 100M	0.320

Total Length: 65.00 ft      Total Volume: 0.320 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

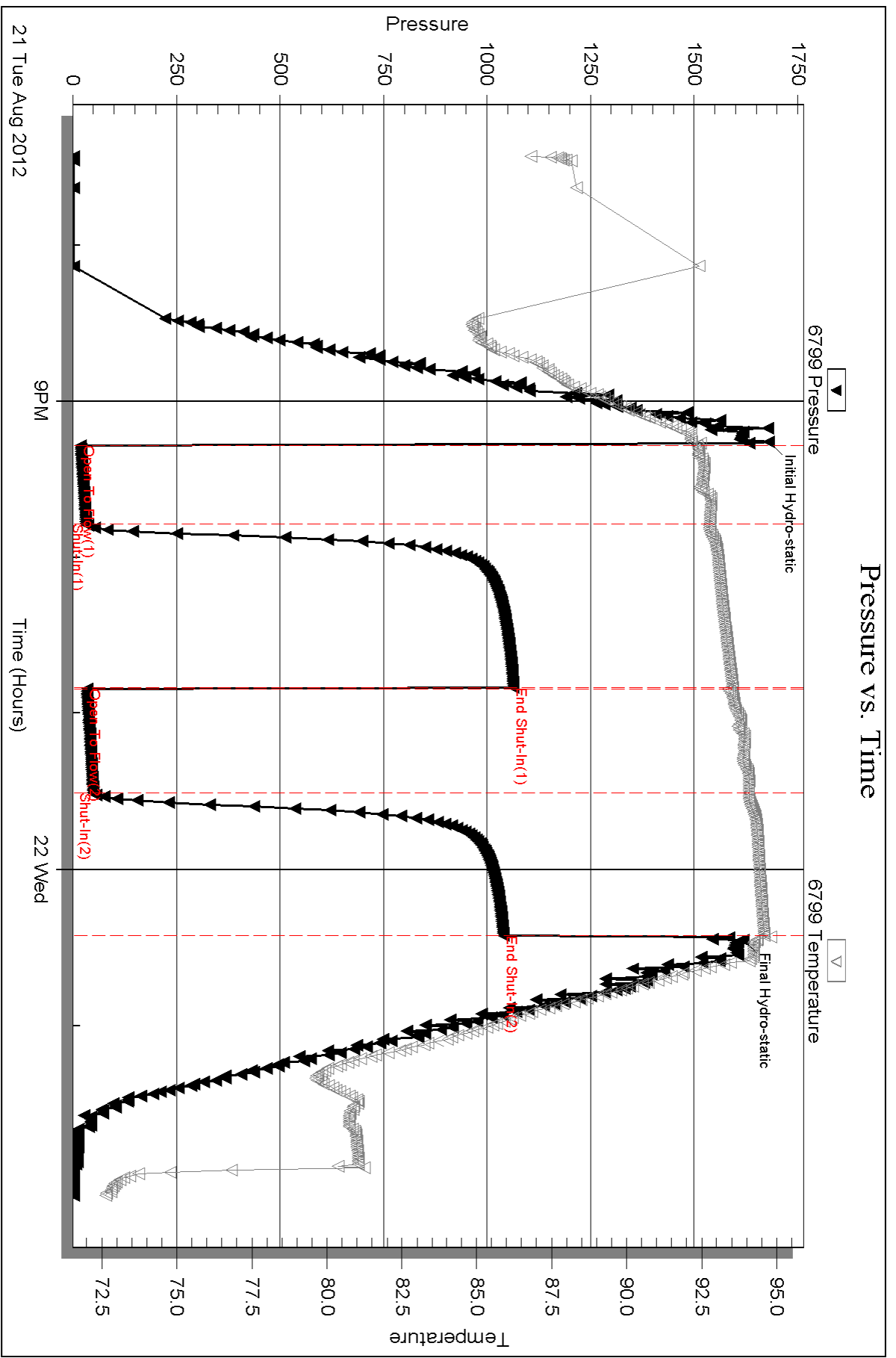
Serial #: 6799

Inside

Murfin Drilling, Co

Schw ab 'A' #2-5

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 45650

Printed: 2012.08.27 @ 14:08:05

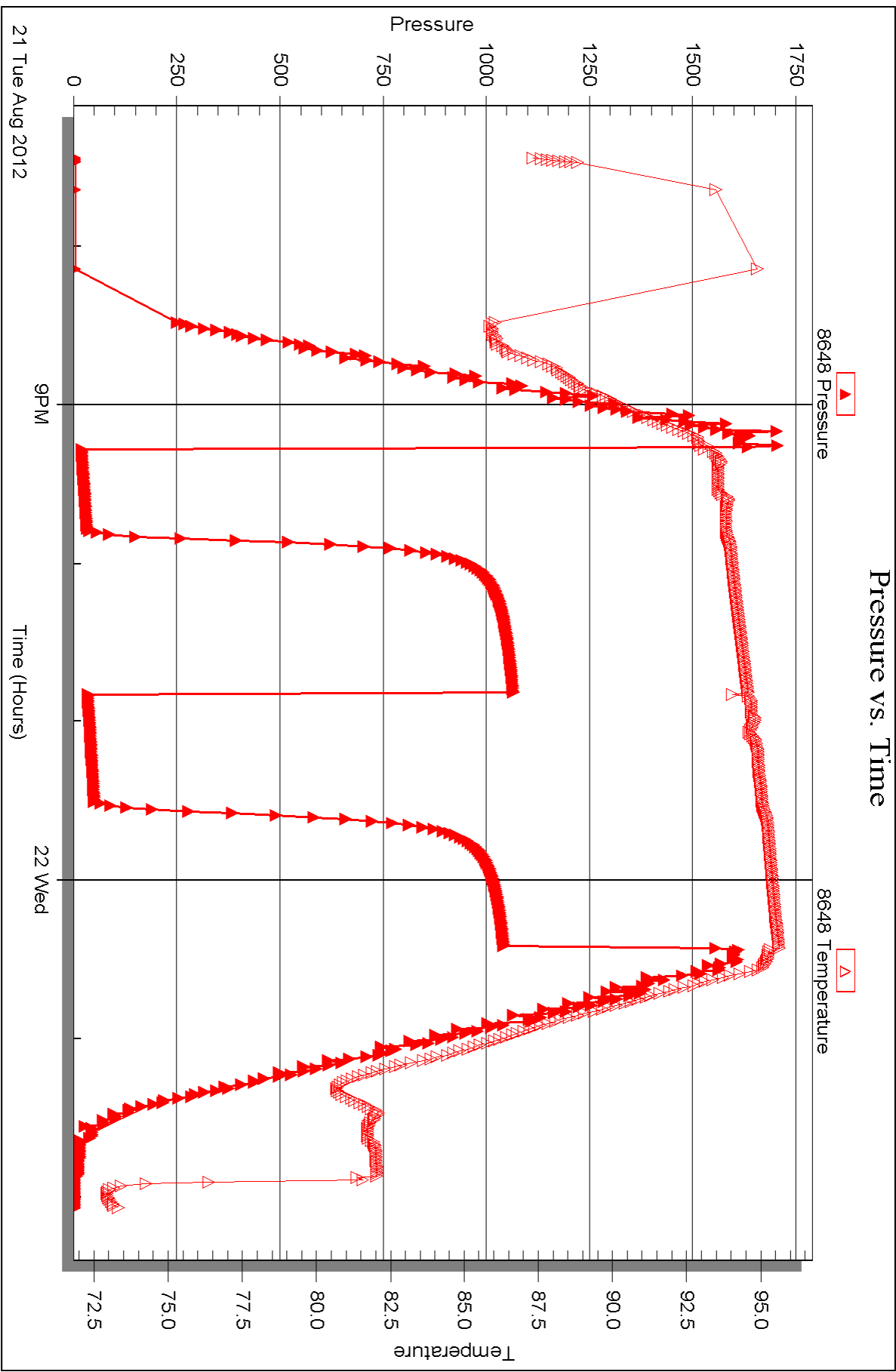
Serial #: 8648

Inside

Murfin Drilling, Co

Schw ab 'A' #2-5

DST Test Number: 2





## DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling, Co**

250 N Water STE #300  
Wichita, KS 67202

ATTN: Jeff Christian

### **Schwab 'A' #2-5**

#### **5-2s-26w Decatur, KS**

Start Date: 2012.08.22 @ 14:03:00

End Date: 2012.08.22 @ 22:22:15

Job Ticket #: 48051                      DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.08.27 @ 14:05:57

Murfin Drilling, Co  
5-2s-26w Decatur, KS  
Schwab 'A' #2-5  
DST # 3  
LKC "H-K"  
2012.08.22



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Murfin Drilling, Co  
250 N Water STE #300  
Wichita, KS 67202  
ATTN: Jeff Christian

**5-2s-26w Decatur, KS**

**Schwab 'A' #2-5**

Job Ticket: 48051 **DST#: 3**

Test Start: 2012.08.22 @ 14:03:00

## GENERAL INFORMATION:

Formation: **LKC "H-K"**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 15:50:45  
 Time Test Ended: 22:22:15  
 Interval: **3475.00 ft (KB) To 3580.00 ft (KB) (TVD)**  
 Total Depth: 3580.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Kevin Mack  
 Unit No: 43  
 Reference Elevations: 2594.00 ft (KB)  
 2589.00 ft (CF)  
 KB to GR/CF: 5.00 ft

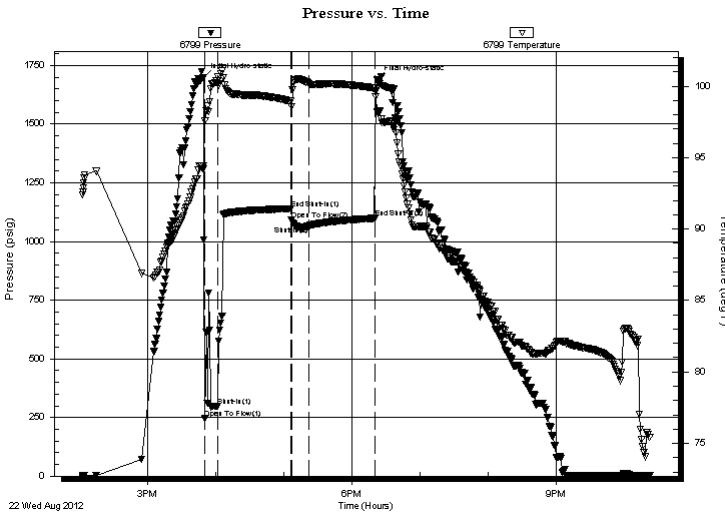
## Serial #: 6799

Inside

Press @ Run Depth: 1066.31 psig @ 3476.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2012.08.22 End Date: 2012.08.22 Last Calib.: 2012.08.22  
 Start Time: 14:03:05 End Time: 22:22:14 Time On Btm: 2012.08.22 @ 15:49:30  
 Time Off Btm: 2012.08.22 @ 18:21:45

TEST COMMENT: 15 - IF- BoB in 30 seconds.  
 60 - IS- No Return  
 15 - FF- BoB in 15 seconds.  
 60 - FS- No Return

## PRESSURE SUMMARY



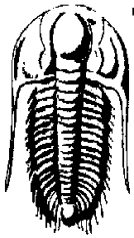
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1698.83	94.21	Initial Hydro-static
2	245.15	97.59	Open To Flow (1)
13	298.98	100.66	Shut-In(1)
77	1139.35	98.95	End Shut-In(1)
78	1091.46	98.59	Open To Flow (2)
93	1066.31	100.20	Shut-In(2)
151	1098.77	99.87	End Shut-In(2)
153	1688.83	98.23	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
738.00	MW 5M 95W	8.66
496.00	Gassy Clean free oil 20G 80o	6.96
372.00	GMWCO 5M 20W 60o 15G	5.22
372.00	MWCO 20M 30W 50o	5.22
372.00	MWCO 10M 30W 60o	5.22

## Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling, Co
250 N Water STE #300
Wichita, KS 67202
ATTN: Jeff Christian

5-2s-26w Decatur, KS
Schwab 'A' #2-5
Job Ticket: 48051 DST#: 3
Test Start: 2012.08.22 @ 14:03:00

GENERAL INFORMATION:

Formation: LKC "H-K"
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 15:50:45
Time Test Ended: 22:22:15

Test Type: Conventional Bottom Hole (Initial)
Tester: Kevin Mack
Unit No: 43

Interval: 3475.00 ft (KB) To 3580.00 ft (KB) (TVD)
Total Depth: 3580.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2594.00 ft (KB)
2589.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8648

Inside

Press @ Run Depth: psig @ 3476.00 ft (KB)
Start Date: 2012.08.22 End Date: 2012.08.22
Start Time: 14:04:05 End Time: 22:21:29

Capacity: 8000.00 psig
Last Calib.: 2012.08.22
Time On Btm:
Time Off Btm:

TEST COMMENT: 15 - IF- BoB in 30 seconds.
60 - IS- No Return
15 - FF- BoB in 15 seconds.
60 - FS- No Return

PRESSURE SUMMARY

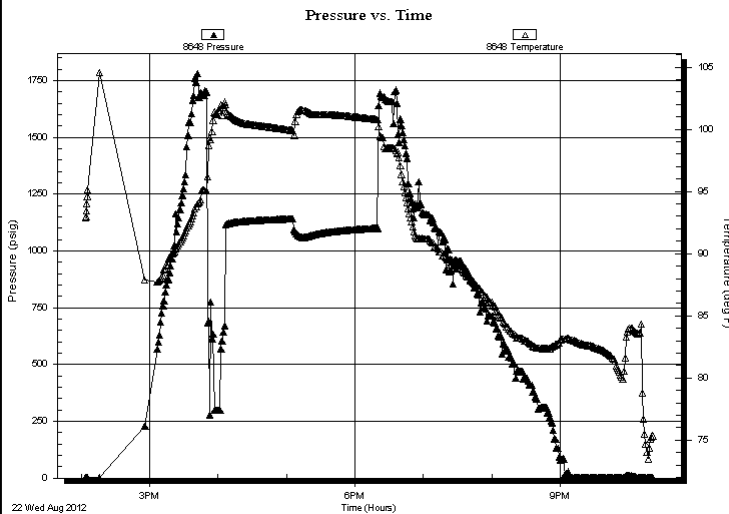


Table with 4 columns: Time (Min.), Pressure (psig), Temp (deg F), and Annotation.

Recovery

Table with 3 columns: Length (ft), Description, and Volume (bbl). Rows include MW 5M 95W, Gassy Clean free oil 20G 80o, and various MWCO measurements.

Gas Rates

Table with 4 columns: Choke (inches), Pressure (psig), and Gas Rate (Mcf/d).



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Murfin Drilling, Co

**5-2s-26w Decatur, KS**

250 N Water STE #300  
Wichita, KS 67202

**Schwab 'A' #2-5**

Job Ticket: 48051

**DST#: 3**

ATTN: Jeff Christian

Test Start: 2012.08.22 @ 14:03:00

## Tool Information

Drill Pipe:	Length: 3283.00 ft	Diameter: 3.80 inches	Volume: 46.05 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 186.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 46.96 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3475.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	105.00 ft			
Tool Length:	134.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3447.00	
Shut In Tool	5.00			3452.00	
Hydraulic tool	5.00			3457.00	
Jars	5.00			3462.00	
Safety Joint	3.00			3465.00	
Packer	5.00			3470.00	29.00 Bottom Of Top Packer
Packer	5.00			3475.00	
Stubb	1.00			3476.00	
Recorder	0.00	8648	Inside	3476.00	
Recorder	0.00	6799	Inside	3476.00	
Perforations	5.00			3481.00	
Change Over Sub	1.00			3482.00	
Drill Pipe	94.00			3576.00	
Change Over Sub	1.00			3577.00	
Bullnose	3.00			3580.00	105.00 Bottom Packers & Anchor

**Total Tool Length: 134.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Murfin Drilling, Co

**5-2s-26w Decatur, KS**

250 N Water STE #300  
Wichita, KS 67202

**Schwab 'A' #2-5**

Job Ticket: 48051

**DST#: 3**

ATTN: Jeff Christian

Test Start: 2012.08.22 @ 14:03:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

30 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 64.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.99 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
738.00	MW 5M 95W	8.658
496.00	Gassy Clean free oil 20G 80o	6.958
372.00	GMWCO 5M 20W 60o 15G	5.218
372.00	MWCO 20M 30W 50o	5.218
372.00	MWCO 10M 30W 60o	5.218

Total Length: 2350.00 ft      Total Volume: 31.270 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Oil API 32 @ 80 deg. = 30 cor.



Serial #: 6799

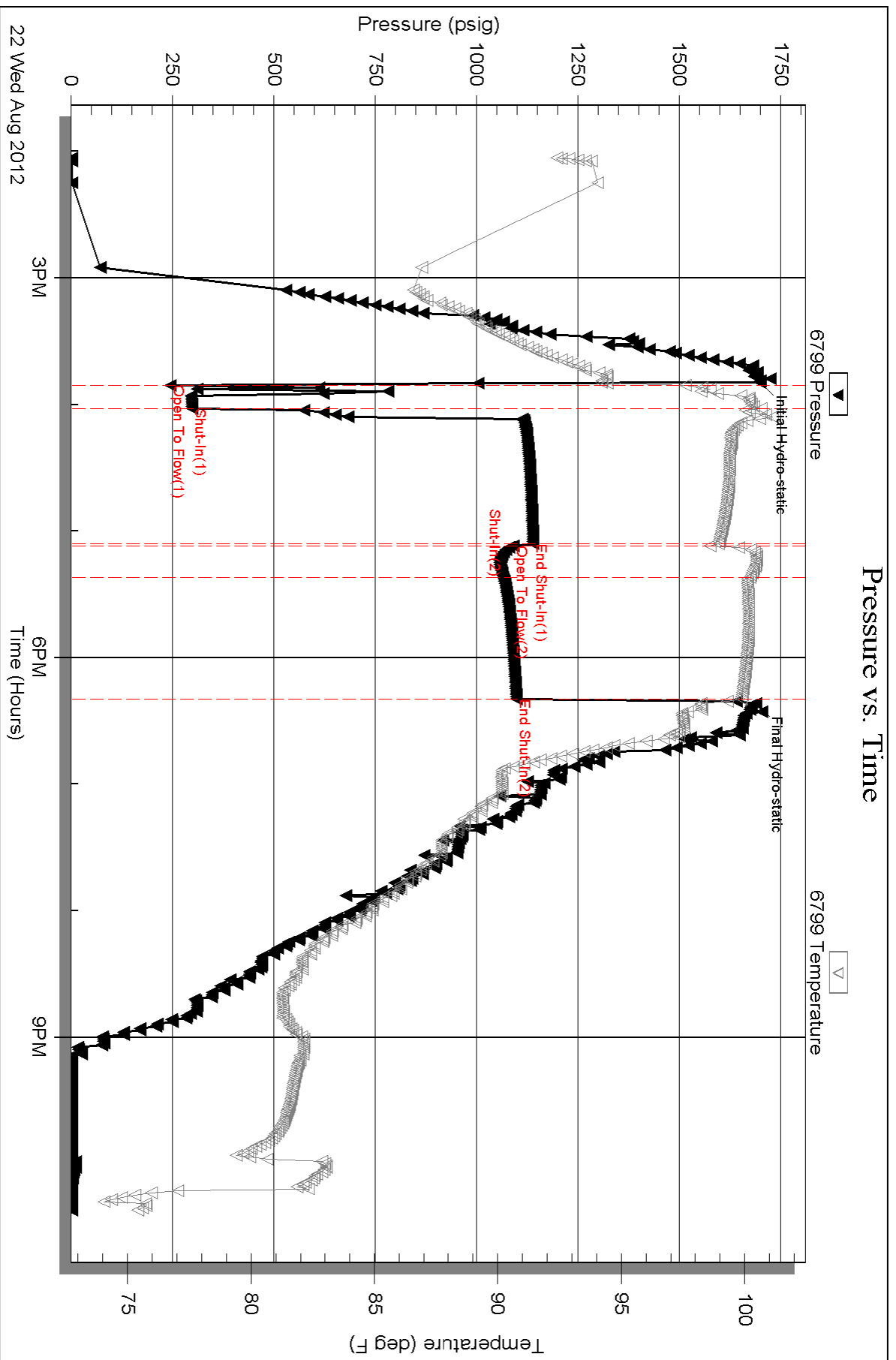
Inside

Murfin Drilling, Co

Schwab 'A' #2-5

DST Test Number: 3

### Pressure vs. Time



Triobite Testing, Inc

Ref. No: 48051

Printed: 2012.08.27 @ 14:06:02

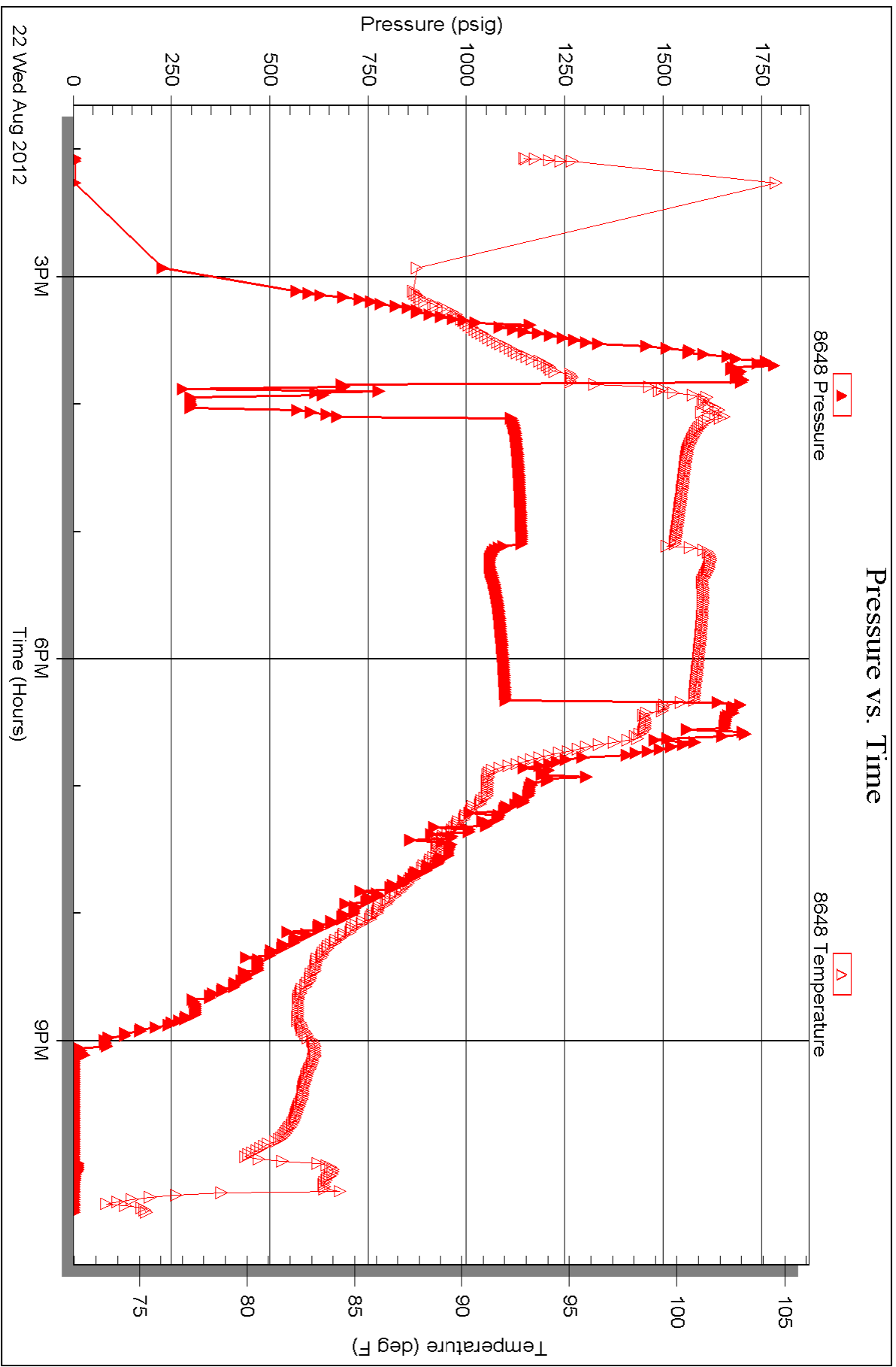
Serial #: 8648

Inside

Murfin Drilling, Co

Schwab 'A' #2-5

DST Test Number: 3





# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

## Test Ticket

NO. 45649

4/10

Well Name & No. Schwab 'A' #2-5 Test No. 1 Date 8-21-12  
 Company Murphy Drilling Co. Elevation 2594 KB 2589 GL  
 Address 250 N Water STE #300 Wichita, KS 67202  
 Co. Rep / Geo. Jeff Christian Rig Murphy #8  
 Location: Sec. 5 Twp. 2S Rge. 26W Co. Decatur State KS

Interval Tested 3321-3399 Zone Tested Oread, Toronto, LKC "A"  
 Anchor Length 78' Drill Pipe Run 3121 Mud Wt. 8.9  
 Top Packer Depth 3317 Drill Collars Run 186' Vis 58  
 Bottom Packer Depth 3321 Wt. Pipe Run Ø WL 6.4  
 Total Depth 3399 Chlorides 3,500 ppm System LCM 5#

Blow Description IF- BoB in 12 min.  
IS- No Return  
FF- BoB in 20 min.  
FS- Surface Return started at 7 min. Died at 45 min.

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>Free oil</u>	<u>100</u>			
<u>315</u>	<u>OCUM</u>	<u>20</u>	<u>30</u>	<u>50</u>	
<u>186</u>	<u>MW</u>		<u>90</u>	<u>10</u>	

Rec Total 511 BHT 95 Gravity 28 API RW .32 @ 84 °F Chlorides 8,000 ppm

(A) Initial Hydrostatic <u>1576</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>2:53 AM</u>
(B) First Initial Flow <u>65</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>3:30 AM</u>
(C) First Final Flow <u>159</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>5:22 AM</u>
(D) Initial Shut-In <u>812</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>9:22 AM</u>
(E) Second Initial Flow <u>159</u>	<input type="checkbox"/> Hourly Standby	T-Out
(F) Second Final Flow <u>254</u>	<input checked="" type="checkbox"/> Mileage <u>40 RT</u> <u>62</u>	Comments <u>Tud slid approx 10' to bottom</u>
(G) Final Shut-In <u>790</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1548</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Final Flow <u>60</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In <u>90</u>	<input type="checkbox"/> Day Standby	Total <u>1537</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1537</u>	

Approved By \_\_\_\_\_ Our Representative 

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. 45650

4/10

Well Name & No. Schwab 'A' # 2-5 Test No. 2 Date 8-21-12  
 Company Murrin Drilling, Co. Elevation 2594 KB 2589 GL  
 Address 250 N Water STE #300 Wichita, KS 67202  
 Co. Rep / Geo. Jeff Christian Rig Murrin #8  
 Location: Sec. 5 Twp. 2s Rge. 26w Co. Decatur State \_\_\_\_\_

Interval Tested 3396-3440 Zone Tested LKC "B+D"  
 Anchor Length 44' Drill Pipe Run 3186 Mud Wt. 9.0  
 Top Packer Depth 3392 Drill Collars Run 186' Vis 48  
 Bottom Packer Depth 3396 Wt. Pipe Run \_\_\_\_\_ WL 6.4  
 Total Depth 3440 Chlorides 2000 ppm System LCM 4#  
 Blow Description IF = Weak surface blow built to 3/4"  
IS = NO Return  
FF = NO Blow  
FS = NO Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>65</u>	<u>Mud</u>			<u>100</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 65 BHT 95 Gravity - API RW - @ - °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic	<u>1680</u>	<input checked="" type="checkbox"/> Test	<u>1150</u>	T-On Location	<u>6:50 PM</u>
(B) First Initial Flow	<u>19</u>	<input checked="" type="checkbox"/> Jars	<u>250</u>	T-Started	<u>7:26 PM</u>
(C) First Final Flow	<u>32</u>	<input checked="" type="checkbox"/> Safety Joint	<u>75</u>	T-Open	<u>9:17 PM</u>
(D) Initial Shut-In	<u>1064</u>	<input checked="" type="checkbox"/> Circ Sub	<u>N/C</u>	T-Pulled	<u>12:30 AM</u>
(E) Second Initial Flow	<u>34</u>	<input type="checkbox"/> Hourly Standby		T-Out	<u>2:05 AM</u>
(F) Second Final Flow	<u>49</u>	<input checked="" type="checkbox"/> Mileage	<u>40 RT</u> 62	Comments	
(G) Final Shut-In	<u>1040</u>	<input type="checkbox"/> Sampler			
(H) Final Hydrostatic	<u>1619</u>	<input type="checkbox"/> Straddle		<input type="checkbox"/> Ruined Shale Packer	
Initial Open	<u>30</u>	<input type="checkbox"/> Shale Packer		<input type="checkbox"/> Ruined Packer	
Initial Shut-In	<u>60</u>	<input type="checkbox"/> Extra Packer		<input type="checkbox"/> Extra Copies	
Final Flow	<u>30</u>	<input type="checkbox"/> Extra Recorder		Sub Total	<u>0</u>
Final Shut-In	<u>60</u>	<input type="checkbox"/> Day Standby		Total	<u>1537</u>
		<input type="checkbox"/> Accessibility		MP/DST Disc't	
		Sub Total	<u>1537</u>		

Approved By \_\_\_\_\_ Our Representative 

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. 48051

Well Name & No. Schwab 'A' #2-5 Test No. 3 Date 8-22-12  
 Company Murphy Drilling Co. Elevation 2594 KB 2589 GL  
 Address 250 N Water STE # 300 Wichita, KS 67202  
 Co. Rep / Geo. Jeff Christian Rig Murphy #8  
 Location: Sec. 5 Twp. 2s Rge. 26W Co. Decatur State KS

Interval Tested 3475-3580 Zone Tested LKC "H-K"  
 Anchor Length 105' Drill Pipe Run 3283 Mud Wt. 8.9  
 Top Packer Depth 3471 Drill Collars Run 186' Vis 64  
 Bottom Packer Depth 3475 Wt. Pipe Run Ø WL 6.0  
 Total Depth 3580 Chlorides 2,000 ppm System LCM 6#  
 Blow Description IF - BOB in 30 seconds.  
IS - no Return  
FF - BOB in 15 seconds  
FS - no Return

Rec	Feet of	%gas	%oil	%water	%mud
372	MWCO	60	30	10	
372	MWCO	50	30	20	
372	SMWCO	15	60	20	5
496	Clean KME oil	20	80		
738	MW		95	5	

Rec Total 2350 BHT 100 Gravity 30 API RW @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 1698  Test 1150 T-On Location 1:45 PM  
 (B) First Initial Flow 245  Jars 250 T-Started 2:03 PM  
 (C) First Final Flow 298  Safety Joint 75 T-Open 3:50 PM  
 (D) Initial Shut-In 1139  Circ Sub NIC T-Pulled 6:20 PM  
 (E) Second Initial Flow 1091  Hourly Standby \_\_\_\_\_ T-Out 10:23 PM  
 (F) Second Final Flow 1066  Mileage 40 RT 62 Comments \_\_\_\_\_  
 (G) Final Shut-In 1098  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1688  Straddle \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_  
 Sub Total 1537

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

Ruined Shale Packer \_\_\_\_\_  
 Ruined Packer \_\_\_\_\_  
 Extra Copies \_\_\_\_\_  
 Sub Total 0  
 Total 1537  
 MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_

Our Representative



PO Box 93999  
Southlake, TX 76092

Voice: (817) 546-7282  
Fax: (817) 246-3361

*acct.  
Brood-Liz H.*

# INVOICE

Invoice Number: 132347  
Invoice Date: Aug 17, 2012  
Page: 1



<b>Bill To:</b>
Murfin Drlg. Co., Inc. 250 N. Water STE #300 Wichita, KS 67202

Customer ID	Well Name/# or Customer P.O.	Payment Terms	
Murfin	Schwab P #2-5	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	Aug 17, 2012	9/16/12

Quantity	Item	Description	Unit Price	Amount
210.00	MAT	Class A Common	16.25	3,412.50
8.00	MAT	Chloride	58.20	465.60
221.35	SER	Cubic Feet	2.10	464.84
815.20	SER	Ton Mileage	2.35	1,915.72
1.00	SER	Surface	1,125.00	1,125.00
80.00	SER	Pump Truck Mileage	7.00	560.00
1.00	SER	Manifold Swedge Rental	200.00	200.00
80.00	SER	Light Vehicle Mileage	4.00	320.00
1.00	CEMENTER	Darren Racette		
1.00	EQUIP OPER	Tyler Flipse		
1.00	OPER ASSIST	Adam Holcomb		

*OKM*

ALL PRICES ARE NET, PAYABLE  
30 DAYS FOLLOWING DATE OF  
INVOICE. 1 1/2% CHARGED  
THEREAFTER. IF ACCOUNT IS  
CURRENT, TAKE DISCOUNT OF

**\$ 2962.28**

ONLY IF PAID ON OR BEFORE  
**Sep 11, 2012**

Subtotal	8,463.66
Sales Tax	283.10
Total Invoice Amount	8,746.76
Payment/Credit Applied	
<b>TOTAL</b>	<b>8,746.76</b>

# ALLIED OIL & GAS SERVICES, LLC 056673

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31  
RUSSELL, KANSAS 67665

SERVICE POINT  
Oakley

DATE <u>8-17-12</u>	SEC. <u>S</u>	TWP. <u>2</u>	RANGE <u>26</u>	CALLED OUT	ON LOCATION <u>7:15 PM</u>	JOB START <u>9:00 PM</u>	JOB FINISH <u>9:30 PM</u>
LEASE <u>Schwab 7A</u>	WELL # <u>2-5</u>	LOCATION <u>Oberlin 14E-SN-12E Nint</u>	COUNTY <u>Decatur</u>	STATE <u>Ks.</u>			
OLD OR <u>NEW</u> (Circle one)					<u>1.01</u>	<u>4.3</u>	

CONTRACTOR Murfin #8  
 TYPE OF JOB Surface  
 HOLE SIZE 12 1/4 T.D. 263  
 CASING SIZE 8 5/8 DEPTH 262  
 TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 DRILL PIPE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 TOOL \_\_\_\_\_ DEPTH \_\_\_\_\_  
 PRES. MAX \_\_\_\_\_ MINIMUM \_\_\_\_\_  
 MEAS. LINE \_\_\_\_\_ SHOE JOINT \_\_\_\_\_  
 CEMENT LEFT IN CSO. 15'  
 PERFS. \_\_\_\_\_  
 DISPLACEMENT 15.80

OWNER Same

CEMENT AMOUNT ORDERED 210 SKS Cem 3% CC

COMMON	<u>210 SKS</u>	@ <u>16.25</u>	<u>3412.50</u>
POZMIX		@	
OIL		@	
CHLORIDE	<u>8 SKS</u>	@ <u>58.25</u>	<u>465.80</u>
ASC		@	

EQUIPMENT

PUMP TRUCK # 423-281 CEMENTER Darren Racette 1  
 HELPER Tyler Flipse 2  
 BULK TRUCK # 342 DRIVER Adam Holcomb 3  
 BULK TRUCK # \_\_\_\_\_ DRIVER \_\_\_\_\_

HANDLING	<u>221.35</u>	@ <u>X</u>	<u>2,222.46</u>
MILEAGE	<u>12.19</u>	X <u>80</u>	X <u>1915.72</u>
TOTAL			<u>6,258.66</u>

815.20

REMARKS:

Mix 210 SKS Cement  
Displace with water  
Cement did circulate

Thank You

SERVICE

DEPTH OF JOB	<u>262</u>	
PUMP TRUCK CHARGE		<u>\$1625.00</u>
EXTRA FOOTAGE	@	
MILEAGE	<u>80</u>	@ <u>17.00</u> <u>\$1360.00</u>
MANIFOLD	<u>Sledge</u>	@ <u>2.00</u> <u>\$160.00</u>
LV mileage	<u>4.00</u>	@ <u>45.00</u> <u>\$180.00</u>

TOTAL \$2205.00

CHARGE TO: Murfin

STREET \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

PLUG & FLOAT EQUIPMENT

	@	
	@	
	@	
	@	
	@	

TOTAL \_\_\_\_\_

To: Allied Oil & Gas Services, LLC.  
 You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

SALES TAX (If Any)	<u>283.10</u>
TOTAL CHARGES	<u>8463.66</u>
DISCOUNT <u>35</u>	<u>2962.28</u> IF PAID IN 30 DAYS

PRINTED NAME Rodney Farr

SIGNATURE Rodney Farr



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



# Invoice

DATE	INVOICE #
8/23/2012	23264

BILL TO
Murfin Drilling Co Inc PO Box 661 Colby, KS 67701-0661
USED FOR <u>IC103</u>
APPROVED <u>[Signature]</u>

- Acidizing
- Cement
- Tool Rental

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#2-5	Schwab A	Decatur	Murfin Drilling	Oil	Development	5-1/2" LongString	Jason
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				80	Miles	6.00	480.00
578D-L	Pump Charge - Long String - 3677 Feet				1	Job	1,500.00	1,500.00
403-5	5 1/2" Cement Basket				2	Each	250.00	500.00T
404-5	5 1/2" Port Collar - 2066 Feet				1	Each	2,400.00	2,400.00T
406-5	5 1/2" Latch Down Plug & Baffle				1	Each	250.00	250.00T
407-5	5 1/2" Insert Float Shoe With Auto Fill				1	Each	350.00	350.00T
409-5	5 1/2" Turbolizer				10	Each	90.00	900.00T
413-5	5 1/2" Roto Wall Scratcher				13	Each	40.00	520.00T
419-5	5 1/2" Rotating Head Rental				1	Each	200.00	200.00T
280	Flocheck 21				500	Gallon(s)	2.50	1,250.00T
221	Liquid KCL (Clayfix)				4	Gallon(s)	25.00	100.00T
276	Flocele				50	Lb(s)	2.00	100.00T
283	Salt				1,000	Lb(s)	0.20	200.00T
284	Calseal				9	Sack(s)	35.00	315.00T
285	CFR-1				150	Lb(s)	4.00	600.00T
290	D-Air				2	Gallon(s)	35.00	70.00T
325	Standard Cement				200	Sacks	13.50	2,700.00T
581D	Service Charge Cement				200	Sacks	2.00	400.00
583D	Drayage				836	Ton Miles	1.00	836.00
	Subtotal							13,671.00
	Sales Tax Decatur County						7.30%	763.22

**We Appreciate Your Business!**

**Total**

\$14,434.22





Services, Inc.

CHARGE TO: MURFIN DRILLING  
 ADDRESS: \_\_\_\_\_  
 CITY, STATE, ZIP CODE: \_\_\_\_\_

TICKET No 23264

PAGE 1 OF 2

SERVICE LOCATIONS: 1. NESS CITY, KS

WELL/PROJECT NO. LEASE: SCHWARZ A ~~2-5~~ DECATUR, KS  
 CONTRACTOR: MURFIN DRILLING RIG #  
 TICKET TYPE:  SERVICE  SALES  
 WELL TYPE: DIL  
 WELL CATEGORY: DEVELOPMENT  
 JOB PURPOSE: 5' LONG STRING  
 STATE: KS CITY: MORGANTOWN, KS  
 SHIPPED VIA: DELIVERED TO: ORDER NO. 234612  
 WELL PERMIT NO.: 4W, 5N, 1/2 E, N150D  
 WELL LOCATION: \_\_\_\_\_

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	LOC	ACCT	DF	DESCRIPTION	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
575					MILEAGE #110	80	MIL			10.00	480.00
578					RAMP SPARK	1	PCS	3672	FT.	1500.00	1500.00
403					CEMENT BASKETS	2	EA.			250.00	500.00
404					PORE COLLAR	1	EA.	2066	FT.	2400.00	2400.00
406					LATCH DOWN PLUG & BARGE	1	EA.			250.00	250.00
407					INSERT FLOAT SHAKE W/ AUTO FILL	1	EA.			350.00	350.00
409					TURBOCHARGERS	10	EA.			90.00	900.00
413					ROTO WHEEL SEPARATORS	13	EA.			40.00	520.00
280					FLOCHECK 21	500	QAL			2.50	1250.00
221					LIQUID KCL	4	QAL			25.00	100.00
419					ROTATING HEAD RENTAL	1	JOB			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

DATE SIGNED: 23AW12 TIME SIGNED: 2330  A.M.  P.M.

SWIFT OPERATOR: *[Signature]* APPROVAL: \_\_\_\_\_

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

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

SURVEY:  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?  YES  NO

CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL: 1  
 Sub total: 13671  
 Decatur TAX: 763  
 TOTAL: 14,434.22

Thank You!



Seawater, Inc

TICKET CONTINUATION

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

TICKET No. 23264

CUSTOMER MURRAY DRILLING

WEIGHT SWANB A 25

DATE 23 Nov 12 PAGE 2 OF 2

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	WEIGHT				UNIT PRICE	AMOUNT
		LOG	ACCT	DF			QTY	UM	QTY	UM		
276						FIDUCE	50	lbs			2.00	100.00
283						SALT	1000	lbs			20.00	2000.00
284						CARSEAL	9	sq			35.00	315.00
285						GFR-1	150	lbs			4.00	600.00
290						D-AIR	2	sq			35.00	70.00
325						STANDARD CEMENT EA2	200	sq			13.59	2718.00
						SERVICE CHARGE						
						MIAGE TOTAL						
581							200	sq			2.00	400.00
583							836	sq			1.00	836.00

CONTINUATION TOTAL 5221.00



Acctg -

cc:wf  
cc:lis  
cc:hen-l



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



# Invoice

DATE	INVOICE #
9/5/2012	21875

BILL TO
Murfin Drilling Co Inc PO Box 661 Colby, KS 67701-0661

- Acidizing
- Cement
- Tool Rental

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#2-5	Schwab A	Decatur		Oil	Development	Cement Port Collar	Don

PRICE REF.	DESCRIPTION	QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way	100	Miles	6.00	600.00
576D-D	Pump Charge - Port Collar - 2063 Feet	1	Job	1,250.00	1,250.00
290	D-Air	2	Gallon(s)	35.00	70.00T
330	Swift Multi-Density Standard (MIDCON II)	190	Sacks	16.50	3,135.00T
276	Flocele	48	Lb(s)	2.00	96.00T
581D	Service Charge Cement	300	Sacks	2.00	600.00
583D	Drayage	1,492.65	Ton Miles	1.00	1,492.65
	Subtotal				7,243.65
	Sales Tax Decatur County			7.30%	240.97

USED FOR IC-103  
 APPROVED [Signature]

<b>We Appreciate Your Business!</b>	<b>Total</b>	\$7,484.62
-------------------------------------	--------------	------------



CHARGE TO: Meridian Dig B.  
 ADDRESS: Meridian Dig B.  
 CITY, STATE, ZIP CODE: \_\_\_\_\_

TICKET NO: 21875

PAGE 1 OF 1

SERVICE LOCATIONS

1. High KS WEL/PROJECT NO. 2-5 LEASE Schubert 'A' COUNTY/PARISH Decatur STATE KS CITY \_\_\_\_\_ DATE 9-5-12 OWNER \_\_\_\_\_

2. Ness City KS WEL/PROJECT NO. \_\_\_\_\_ LEASE \_\_\_\_\_ COUNTY/PARISH \_\_\_\_\_ STATE \_\_\_\_\_ CITY \_\_\_\_\_ ORDER NO. \_\_\_\_\_

3. \_\_\_\_\_ WEL TYPE  SERVICE  SALES 50c CONTRACTOR \_\_\_\_\_ RIG NAME NO. \_\_\_\_\_ SHIPPED VIA CG DELIVERED TO Ness City, KS

4. \_\_\_\_\_ WEL TYPE 0-1 WEL CATEGORY Wetland JOB PURPOSE Revent Bitter 2003 WEL PERMIT NO. \_\_\_\_\_ WEL LOCATION \_\_\_\_\_

INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	MILEAGE #	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT	DF								
575						113	100	mi			600	60000
576 D					Trump Charge - cut Port Gils		1 ea		203.14		135000	135000
290					D-Air		2 gal				3500	7000
330					Sud Cement		190	SKS			1650	313500
276					Fluor		75	lbs			200	9600
581					Service Charge - Cement		300	SKS	29853	lbs	200	60000
583					Dreg eye		499	ESTW		mi	180	149265

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

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

DATE SIGNED: 9-5-12 TIME SIGNED: 0930

SWIFT OPERATOR: [Signature]

REMIT PAYMENT TO:

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

SURVEY

OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?

WE UNDERSTOOD AND MET YOUR NEEDS?

OUR SERVICE WAS PERFORMED WITHOUT DELAY?

WE OPERATED THE EQUIPMENT AND PERFORMED JOB SATISFACTORILY?

ARE YOU SATISFIED WITH OUR SERVICE?  YES  NO

CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL: 7243.65

TOTAL: 7484.62

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

APPROVAL: [Signature]

Thank You!

**JOB LOG**

**SWIFT Services, Inc.**

DATE 7-5-12 PAGE NO. 1  
 TICKET NO. 21895

CUSTOMER Newark Drilling Co WELL NO. 2-5 LEASE Schwab A' JOB TYPE Leucost Drilling

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0915							On location - 300 SKS SMD cont
	0930					1000	1000	1st P.C. closed @ 20623' - OK
		3	2			C	400	Open P.C. - inj rate 7.5 gal (8) (72)
							C	Hook to 76g Annul (64)
		3	3/5			400	C	Inj rate - Huse cir - Start unit
		3	90			425	C	cut cir @ 11.5 SKS @ 11.2#/gal
		3				450	C	Mix 25 SKS @ 12.5 to 13#/gal
		3				450	C	Fin unit - Displ 7.851
		D				520	C	Fin Displ.
						C	1000	Close 1st P.C. closed
								Run 5 Jts 76g
		3	7/14			400		Rev-out 2 flags - clean
		C	25			375		Fin Rev-out
	11:00							Job complete
								Wash up & Hook up
								165 SKS @ 11.2#/gal
	11:20							25 SKS @ 13#/gal
								190 SKS SMD cont used
								20 SKS to FT

*[Signature]*  
 Alan, Brian & Jeremy