



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1156848
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: _____



1156848

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
--	---

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

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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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

August 30, 2013

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

Re: ACO1
API 15-039-21174-00-00
DCFY Unit 1-11
NE/4 Sec.11-02S-29W
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

MDCI DCFY Unit #1-11 2450' FNL 2150' FEL Sec. 11-T2S-R29W 2719' KB							MDCI Pollnow #1-14 1150' FSL 2070' FWL Sec. 14-T2S-R29W 2710' KB	
Formation	Sample top	Datum	Ref	Log tops	Datum	Ref	Log tops	Datum
Anhydrite	2440	+279	+3	2437	+282	+6	2434	+276
B/Anhydrite	2472	+247	+3	2470	+249	+5	2466	+244
Neva	3120	-401	+3	3116	-397	+7	3114	-404
Topeka	3504	-785	+7	3501	-782	+10	3502	-792
Heebner	3668	-949	+6	3661	-942	+13	3665	-955
Lansing	3707	-988	+12	3704	-985	+15	3710	-1000
Stark	3871	-1152	+8	3868	-1149	+11	3870	-1160
BKC	3921	-1202	+4	3918	-1199	+7	3916	-1206
RTD	4025						3990	
LTD				4022			3986	

Thomas J. Funk
Petroleum Geologist

Geologists' Report
Drilling Time and Sample Log

OPERATOR **Murfin Drilling Co., Inc**
LEASE **DCFY Unit** WELL NO **#1-11**

FIELD **Wildcat** API **15-039-21174**
LOCATION **2450' FNL & 2150' FEL**
SEC. **11** TWP. **2S** RGE. **29W**

COUNTY **Decatur** STATE **Kansas**

CONTRACTOR **Murfin Drig Co Rig #8**
COMM **5/7/2013** COMP **5/13/2013**
RTD **4025'** LOG TD **4022'**
SAMPLES SAVED FROM **3025'** TO **4025'**
DRILLING TIME KEPT FROM **3025'** TO **4025'**
SAMPLES EXAMINED FROM **3025'** TO **4025'**

SECTIOAL SUPERVISION FROM **3110'** TO **4025'**
MUD/UP **2900'** TYPE MUD **Chemical**

FORMATION LOG TOP SAMPLE STRUCT
TOP DATUM TIME COMP
Anyhrite 2438 (+281) 2440 (+279) +6
Blantlyrite 2470 (+249) 2472 (+247) +7
Neva 3116 (-397) 3120 (-401) +10
Topeka 3502 (-783) 3504 (-785) +13
Heebner Sh 3660 (-941) 3663 (-944) +15
Lansing 3704 (-985) 3707 (-988) +11
Stark Sh 3868 (-1149) 3868 (-1149) +7
B/kansas Civ 3918 (-1199) 3921 (-1202) +7

ELECTRICAL SURVEYS
Log-Tech
DIL
DUCP
BHCS

CASING RECORD
SURFACE
8 5/8" at 218'KB w/190SX
PRODUCTION

ELEVATION
KB 2719'
DF
GL 2714'
Measurements Are All From **KB**

5 1/2" at 4020'KB w/150SX

11 °

REFERENCE WELL FOR STRUCTURAL COMPARISON: Murfin Drig Co. #1-14 Pollnow

1150' FSL & 2070' FWL sec. 14-2S-29W, Decatur Co. KS

Date	Daily Progress		Bit Record		
	Depth	NO. Size	Make	Type	Depth Out
5/7/13	Spud	1	12 1/4" GMS	RR	218
5/8/13	680'				218
5/9/13	2420'	2	7 7/8" HTC	GX20c	4025
5/10/13					3807
5/11/13	3725'				76
5/12/13	3868'				
5/13/13	4025' TD				

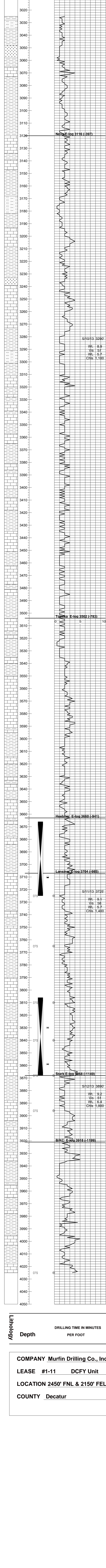
Remarks And Recommendations:
Based upon log analysis, DST recovery, and sample examination, it was decided to run production casing to further evaluate the #1-11 DCFY Unit.

Thomas Funk
Petroleum Geologist

Deviation Surveys:
1/2 deg @ 218'
1/2 deg @ 3725'
1 deg @ 4025'

DST #1 3666-3725
30"-60"-30"-60"
Blow built to 1 1/2 inches on IFP
No blow on FFP **
REC
5' CO
124' WCWO (50%o, 5%w, 45%sm)
62' WCOM (10%o, 5%w, 85%sm)
191' Total Fluid
IFP 42-85 ISIP 1127
FFP 94-117 FSIP 1104
IHP 1945 FHP 1844
Temp: 111 deg F
**Surface testing equipment was leaking during test

DST #2 3806-3868
30"-60"-30"-60"
Weak blow died in 20" on IFP
No blow on FFP
REC
15' Mud
IFP 18-25 ISIP 1125
FFP 24-28 FSIP 1068
IHP 1944 FHP 1911
Temp: 111 deg F



Log tops correlate approximately 3 feet uphole to log tops. No correction was made.

Depth	DRILLING TIME IN MINUTES PER FOOT	Sample Descriptions	Remarks
3000		Sh, rd, v sft	
3010		SS, rd-marr, f-grn, hrd, argill in prt, tite	
3020		Sh, gry & rd, v sft, sdy in prt	
3030		SS, tn-brn & rd, v sft, argill	
3040		Sh, lt gry & tn, md-sft	
3050		LS, crm-lt gry, dns, v f-xln, trc foss, blocky	
3060		Sh, tn, brn & rd, sft	
3070		Sh, rd, v sft, sdy in prt + SS, rd, v f-grn, argill	
3080		Sh, AA	
3090		Sh, brn & tn, md-hrd, sdy	
3100		LS, crm, dns, v f-xln, trc foss, sm sdy, grtty, no vis por, NS	
3110		Sh, drk gry, calc in prt	
3120		LS, gry, dns, f-xln, mott, trc foss, sm sdy, grtty	
3130		Sh, tr-brn, md-sft, dsy in prt	
3140		Sh, AA	
3150		SS, rd-tn, v f-grn, well-srtd, calc cmt, hrd	
3160		Sh, gry & tn, + Sltstn, gry, mica	
3170		LS, crm-tn, f-xln, dns, foss inprt, bec sdy, pr vis por, NS	
3180		LS, AA bec wht, f-xln, v chalky, sft	
3190		Sh, gry, sft, silty	
3200		Sh, rd & marr, v sft, sdy inprt	
3210		SS, gry & rd, v f-grn, argill, sft	
3220		LS, lt gry-crm, f-xln, foss in prt, chalky, pr vis por, NS	
3230		LS, drk gry, dns, v f-xln, mott, argill	
3240		LS, lt gry, dns, micro-xln, mott in prt, trc foss	
3250		Sh, rd & brn, v sft, clayey, sm sd grn incls	
3260		Sh, AA	
3270		SS, gry & tn, v f-grn, argill, sft + Sh, rd, sft, earthy	
3280		Sh, tn & brn, md-sft	
3290		LS, tn, dns, v f-xln, chalky, trc foss, tite	
3300		Sh, gry, sft, calc in prt	
3310		LS, crm-gry, f-xln, grtty, sdy, trc foss, pr vis por	
3320		LS, gry, dns, v f-xln, blocky, trc sd	
3330		Sh, brn, silty, sft	
3340		LS, gry, dns, v f-xln, blocky, trc foss	
3350		Sh, rd-marr, sft	
3360		LS, lt gry-crm, f-xln, chalky, trc foss + Sh, drk gry & blk	
3370		LS, crm, f-xln, dns, v chalky, trc foss, pr vis por, NS	
3380		Sh, gry & tn, v sft	
3390		LS, crm-lt gry, f to md-xln, foss in prt, sm chalky, brittle	
3400		Sh, gry, silty	
3410		LS, lt gry, dns, v f-xln, blocky, sm chalky, foss in prt	
3420		LS, crm, f-xln, mott in prt, trc foss	
3430		Sh, gry & tn, md-sft	
3440		LS, crm, f-xln, foss, chalky, sct p pt por, NS	
3450		LS, crm-wht, f-xln, v chalky, sft, trc foss	
3460		Sh, rd & brn, v sft	
3470		Sh, rd, v sft, earthy, clayey	
3480		LS, crm, f-xln, v chalky in prt, foss, sct fossmold por, NS	
3490		LS, AA + Sh, gry, flss	
3500		Sh, brn & rd, sft, clayey	
3510		LS, tn-gry, dns, mott in prt, trc foss, hrd	
3520		Sh, gry, tn, & brn, md-sft	
3530		LS, crm-tn & wht, f-xln, ool in prt, foss, sm v chalky, pr vis int-cool por, NS	
3540		LS, wht, f-xln, v chalky, sft, foss in prt, no vis por, NS	
3550		LS, crm, f-xln, foss, chalky in prt, fr fossmold por, NS	
3560		LS, gry, dns, f-xln, mott, blocky, trc foss	
3570		Sh, gry & blk	
3580		Sh, rd & brn, v sft	
3590		LS, tn & gry, dns, v f-xln, blocky, mott	
3600		Sh, drk brn & rd, v sft	
3610		LS, drk gry, dns, v f-xln, mott, argill in prt	
3620		Sh, gry, tn, & rd, v sft	
3630		LS, wht-crm, f-xln, foss, sm grtty-sdy, chalky, pr vis por, NS	
3640		Sh, gry & tn	
3650		Sh, rd, v sft, sm sdy	
3660		LS, gry, dns, v f-xln, mott, argill in prt	
3670		Sh, rd, sft, calyey	
3680		LS, crm, f-xln, foss, ool in prt, sm chalky, fr moldic & int-part por, FSFO, fr odor, sct md brn stn, wk dull flour	
3690		LS, crm-wht, f-xln, sm v chalky, foss in prt, sft, pr vis por, NS	
3700		Sh, rd, v sft	
3710		LS, drk gry, dns, micro-xln, blocky, trc sd grns, sm foss	
3720		LS, crm-lt gry & wht, f-xln, dns, sct foss, ool, chalky, pr vis p pt por, NSFO, no odor, v sct edge stn	
3730		AA + Sh, gry, sft, silty	
3740		Sh, rd & brn, v sft, trc sd grns	
3750		Sh, brn, tn, & gry, md-sft	
3760		LS, crm-wht, f-xln, dns, chalky in prt, sct foss frags, pr vis por, NS	
3770		LS, gry, dns, micro-xln, mott in prt, blocky	
3780		Sh, rd, sft	
3790		LS, crm, f-xln, dns, foss in prt, blocky, v sct moldic por, SSFO, no odor, sct stn, wk flour	
3800		Sh, brn-rd, v sft	
3810		LS, crm, f-xln, dns, foss in prt, v sct moldic por, SSFO, no odor, sct stn, wk flour	
3820		Sh, drk gry & blk	
3830		Sh, gry, tn & rd, v sft	
3840		LS, tn-crm & gry, dns, v f-xln, micro-ool, trc foss, brittle, pr vis por, NSFO, no odor, sct lt stn	
3850		Sh, gry & blk	
3860		LS, crm-gry, f-xln, sdy in prt, dns, hrd, trc foss	
3870		Sh, gry, md-sft, trc sd grns	
3880		LS, gry, dns, micro-xln, blocky, hrd	
3890		Sh, rd, v sft, clayey, sm sdy	
3900		Sh, AA + SS, drk gry, v f-grn, well-srtd, argill	
3910		LS, tn, dns, v f-xln, ool in prt, sm sdy, hrd, brittle	
3920		Sh, gry + LS, drk gry, v argill, hrd	
3930		Sh, brn & rd, md-sft, sdy in prt	
3940		Sh, brn, rd, & yell, v sft, sdy in prt	
3950		LS, gry, dns, f-xln, mott, foss, sm sd grn incls, hrd	
3960		Sh, brn & brn, v sft	
3970		LS, drk gry, dns, micro-xln, blocky, trc foss, mott in prt	
3980			
3990			
4000			
4010			
4020			
4030			
4040			
4050			

Depth	DRILLING TIME IN MINUTES PER FOOT	Sample Descriptions	Remarks
3918		LS, crm, f-xln, dns, foss in prt, sm chalky, fr moldic & int-part por, FSFO, fr odor, sct md brn stn, wk dull flour	
3919		LS, crm-wht, f-xln, sm v chalky, foss in prt, sft, pr vis por, NS	
3920		Sh, rd, v sft	
3921		LS, drk gry, dns, micro-xln, blocky, trc foss, mott in prt	

COMPANY **Murfin Drilling Co., Inc** ELEVATION **2719'** KB
LEASE **#1-11** DCFY Unit
LOCATION **2450' FNL & 2150' FEL** Sec **11** TWP **2S** RGE **29W**
COUNTY **Decatur** STATE **Kansas**



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co.**

250 N. Water Ste. 300
Wichita KS 67202

ATTN: Tom Funk

DCFY Unit #1-11

11-2s-29w Decatur,KS

Start Date: 2013.05.11 @ 05:35:00

End Date: 2013.05.11 @ 12:55:00

Job Ticket #: 50670 DST #: 1

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2013.05.17 @ 15:11:33



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co.
250 N. Water Ste. 300
Wichita KS 67202
ATTN: Tom Funk

11-2s-29w Decatur, KS
DCFY Unit #1-11
Job Ticket: 50670 **DST#: 1**
Test Start: 2013.05.11 @ 05:35:00

GENERAL INFORMATION:

Formation: **LKC-A**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 07:49:00
Time Test Ended: 12:55:00
Interval: **3666.00 ft (KB) To 3725.00 ft (KB) (TVD)**
Total Depth: 3725.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Initial)
Tester: Chuck Kreuzer Jr.
Unit No: 61
Reference Elevations: 2719.00 ft (KB)
2714.00 ft (CF)
KB to GR/CF: 5.00 ft

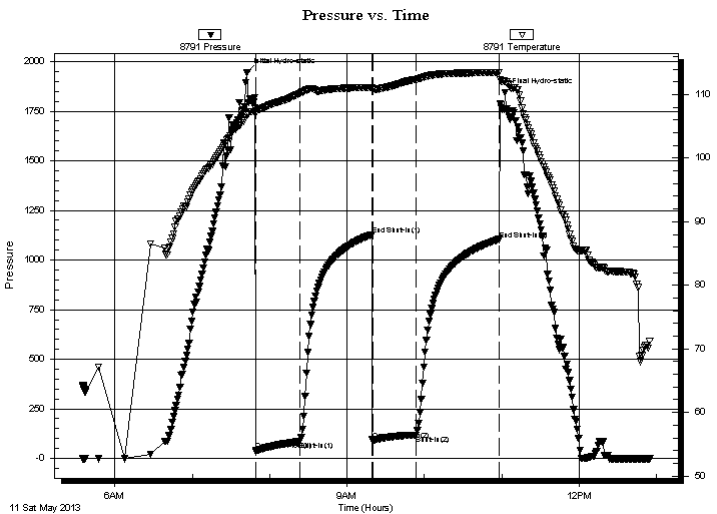
Serial #: 8791

Inside

Press @ Run Depth: 117.28 psig @ 3667.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2013.05.11 End Date: 2013.05.11 Last Calib.: 2013.05.11
Start Time: 05:35:01 End Time: 12:55:00 Time On Btm: 2013.05.11 @ 07:42:30
Time Off Btm: 2013.05.11 @ 11:02:30

TEST COMMENT: IF: Weak blow, Built to 1 1/2 in. over 30 mins.
IS: No blow back over 60 mins.
FF: No blow over 30 mins.
FS: No blow back over 60 mins.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1945.43	106.77	Initial Hydro-static
7	42.39	107.06	Open To Flow (1)
41	85.42	110.15	Shut-In(1)
97	1127.28	111.12	End Shut-In(1)
98	93.58	110.94	Open To Flow (2)
131	117.28	112.37	Shut-In(2)
195	1103.81	113.49	End Shut-In(2)
200	1844.09	112.02	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	vsw co-5%w 10%o85%m	0.30
124.00	vsw cmo-5%w 45%m55%o	0.61
5.00	oil-100%	0.07

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: Tom Funk

11-2s-29w Decatur,KS
DCFY Unit #1-11
 Job Ticket: 50670 **DST#: 1**
 Test Start: 2013.05.11 @ 05:35:00

GENERAL INFORMATION:

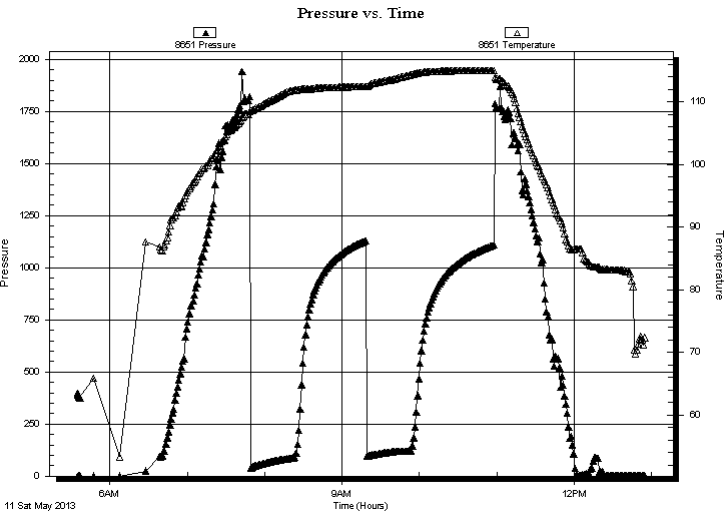
Formation: **LKC-A**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 07:49:00
 Time Test Ended: 12:55:00
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Chuck Kreutzer Jr.
 Unit No: 61
 Interval: **3666.00 ft (KB) To 3725.00 ft (KB) (TVD)**
 Total Depth: 3725.00 ft (KB) (TVD)
 Reference Elevations: 2719.00 ft (KB)
 2714.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good
 KB to GR/CF: 5.00 ft

Serial #: 8651

Outside

Press@RunDepth: psig @ 3667.00 ft (KB)
 Start Date: 2013.05.11 End Date: 2013.05.11
 Start Time: 05:35:01 End Time: 12:55:00
 Capacity: 8000.00 psig
 Last Calib.: 2013.05.11
 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: Weak blow , Built to 1 1/2 in. over 30 mins.
 IS: No blow back over 60 mins.
 FF: No blow over 30 mins.
 FS: No blow back over 60 mins.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
62.00	vsw co-5%w 10%o85%m	0.30
124.00	vsw cmo-5%w 45%m55%o	0.61
5.00	oil-100%	0.07

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co.

11-2s-29w Decatur,KS

250 N. Water Ste. 300
Wichita KS 67202

DCFY Unit #1-11

Job Ticket: 50670

DST#: 1

ATTN: Tom Funk

Test Start: 2013.05.11 @ 05:35:00

Tool Information

Drill Pipe:	Length: 3472.00 ft	Diameter: 3.80 inches	Volume: 48.70 bbl	Tool Weight: 2400.00 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: 52000.00 lb
			<u>Total Volume: 49.61 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3666.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	59.00 ft			
Tool Length:	87.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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

Shut In Tool	5.00			3643.00	
Hydraulic tool	5.00			3648.00	
Jars	5.00			3653.00	
Safety Joint	3.00			3656.00	
Packer	5.00			3661.00	28.00 Bottom Of Top Packer
Packer	5.00			3666.00	
Stubb	1.00			3667.00	
Recorder	0.00	8791	Inside	3667.00	
Recorder	0.00	8651	Outside	3667.00	
Perforations	1.00			3668.00	
change Over Sub	1.00			3669.00	
Drill Pipe	32.00			3701.00	
Change Over Sub	1.00			3702.00	
Perforations	20.00			3722.00	
Bullnose	3.00			3725.00	59.00 Bottom Packers & Anchor

Total Tool Length: 87.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co.

11-2s-29w Decatur,KS

250 N. Water Ste. 300
Wichita KS 67202

DCFY Unit #1-11

Job Ticket: 50670

DST#: 1

ATTN: Tom Funk

Test Start: 2013.05.11 @ 05:35:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
62.00	vsw co-5%w 10%o85%m	0.305
124.00	vsw cmo-5%w 45%m55%o	0.610
5.00	oil-100%	0.070

Total Length: 191.00 ft

Total Volume: 0.985 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

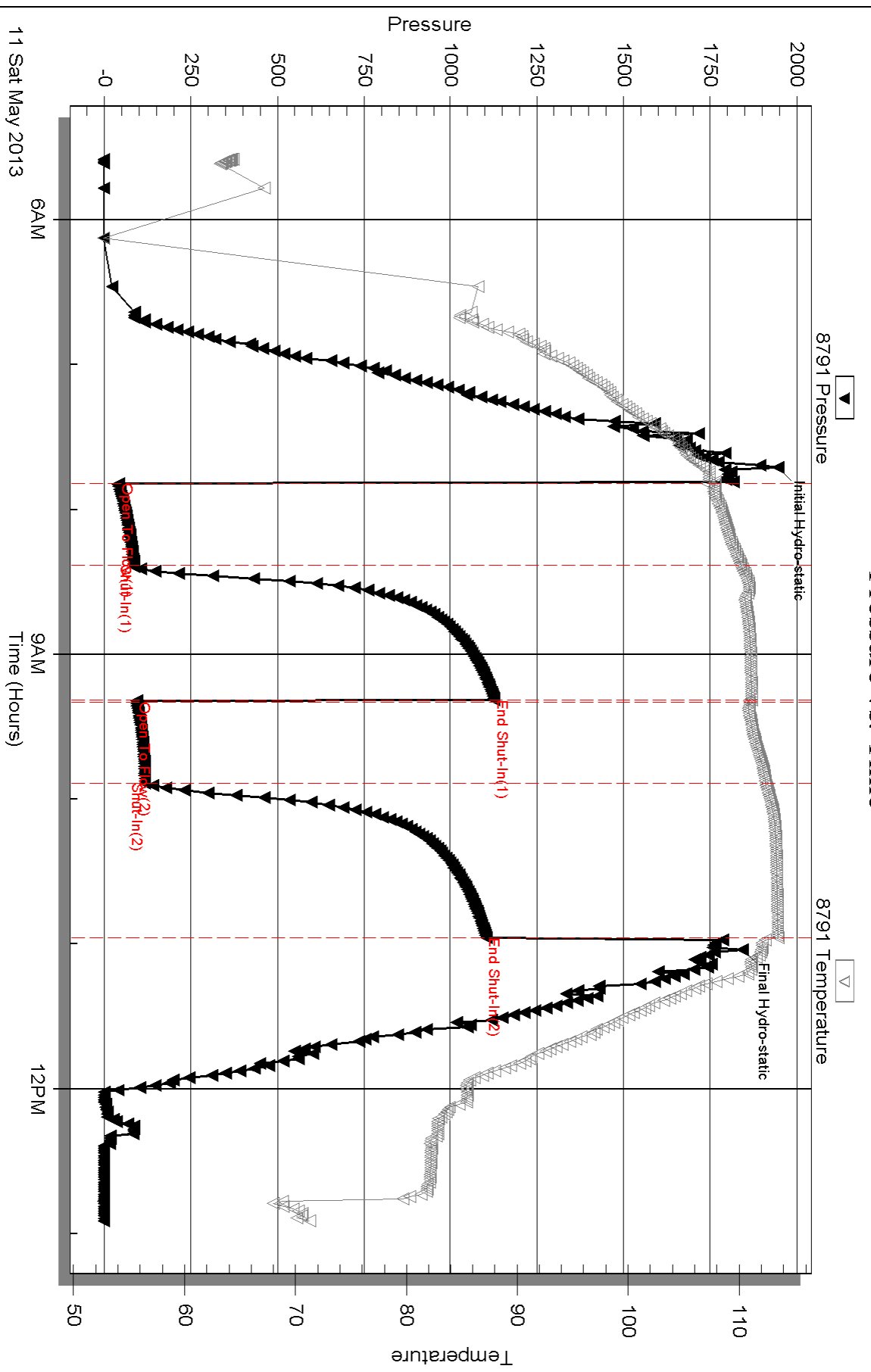
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

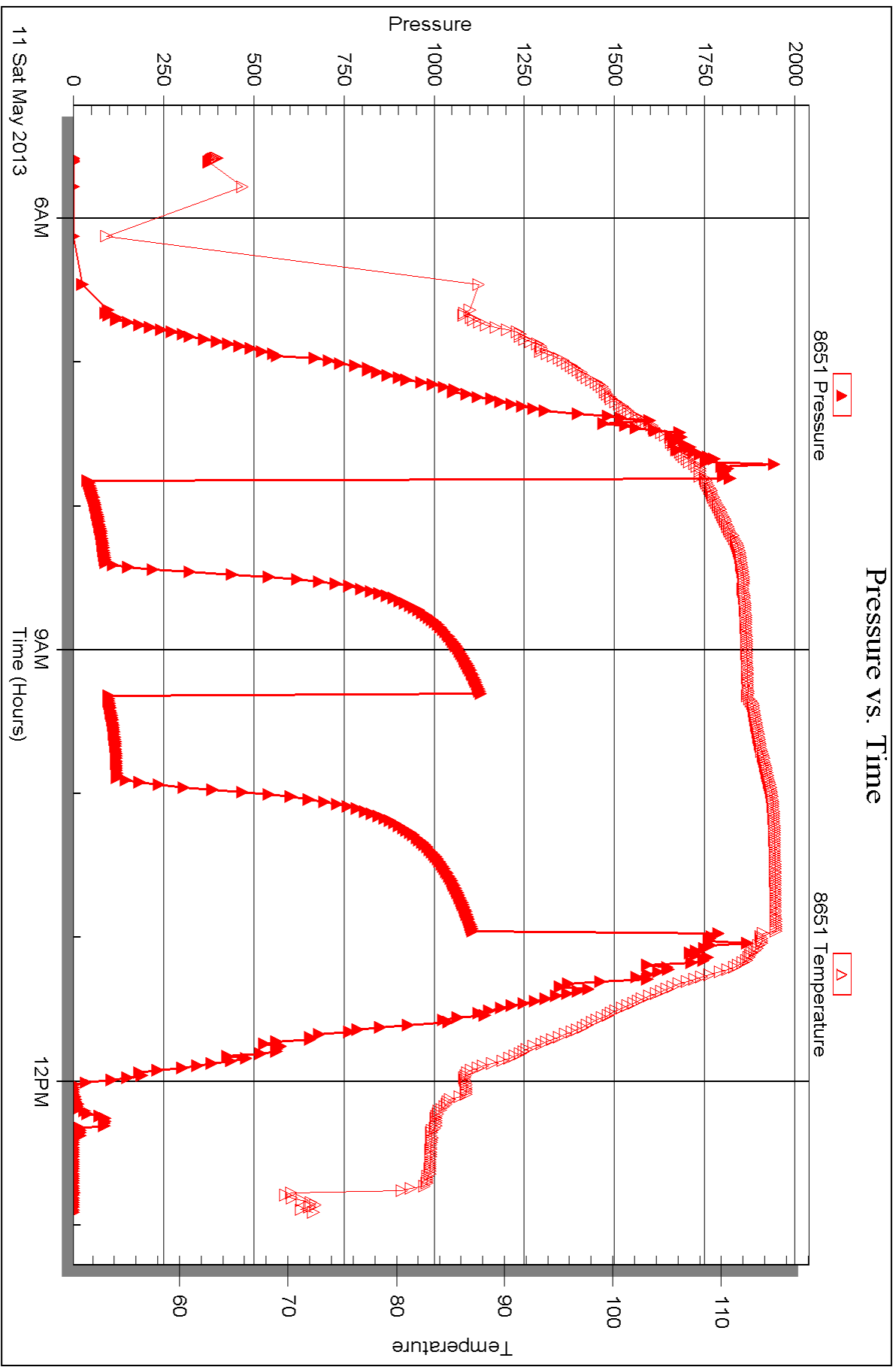


Serial #: 8651

Outside Murfin Drilling Co.

DCFY Unit #1-11

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co.**

250 N. Water Ste. 300
Wichita KS 67202

ATTN: Tom Funk

DCFY Unit #1-11

11-2s-29w Decatur,KS

Start Date: 2013.05.12 @ 03:10:00

End Date: 2013.05.12 @ 10:30:00

Job Ticket #: 50671 DST #: 2

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2013.05.17 @ 15:10:43



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co.
 250 N. Water Ste. 300
 Wichita KS 67202
 ATTN: Tom Funk

11-2s-29w Decatur, KS
DCFY Unit #1-11
 Job Ticket: 50671 **DST#: 2**
 Test Start: 2013.05.12 @ 03:10:00

GENERAL INFORMATION:

Formation: **LKC H-J**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 05:26:00 Tester: Chuck Kreuzer Jr.
 Time Test Ended: 10:30:00 Unit No: 61
 Interval: **3806.00 ft (KB) To 3868.00 ft (KB) (TVD)** Reference Elevations: 2719.00 ft (KB)
 Total Depth: 3868.00 ft (KB) (TVD) 2714.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 5.00 ft

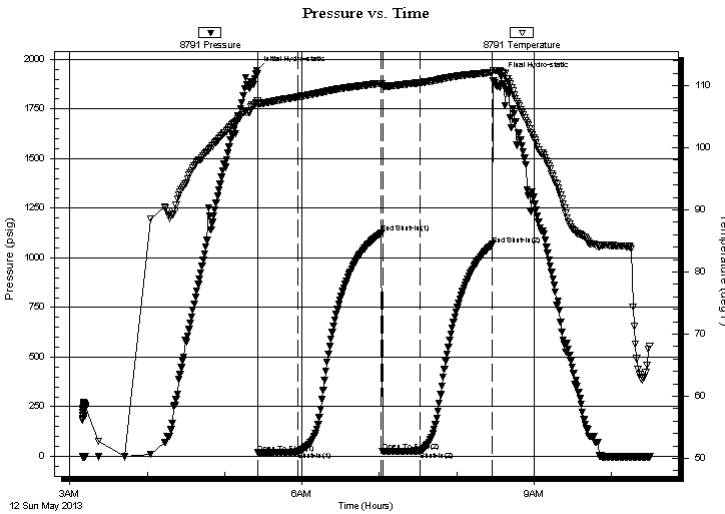
Serial #: 8791

Inside

Press @ Run Depth: 28.02 psig @ 3807.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.05.12 End Date: 2013.05.12 Last Calib.: 2013.05.12
 Start Time: 03:10:01 End Time: 10:30:00 Time On Btm: 2013.05.12 @ 05:25:00
 Time Off Btm: 2013.05.12 @ 08:34:30

TEST COMMENT: IF: Weak blow, Surface. Dead in 20 mins.
 IS: No blow back over 60 mins.
 FF: No blow over 30 mins.
 FS: No blow back over 60 mins.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1944.04	107.27	Initial Hydro-static
1	17.60	107.03	Open To Flow (1)
32	24.52	108.16	Shut-In(1)
97	1124.69	110.36	End Shut-In(1)
98	24.39	110.00	Open To Flow (2)
127	28.02	110.45	Shut-In(2)
183	1067.54	112.10	End Shut-In(2)
190	1911.06	112.28	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	mud-100%m	0.07

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co.

11-2s-29w Decatur,KS

250 N. Water Ste. 300
Wichita KS 67202

DCFY Unit #1-11

Job Ticket: 50671

DST#: 2

ATTN: Tom Funk

Test Start: 2013.05.12 @ 03:10:00

Tool Information

Drill Pipe:	Length: 3600.00 ft	Diameter: 3.80 inches	Volume: 50.50 bbl	Tool Weight: 2400.00 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: 55000.00 lb
			<u>Total Volume: 51.41 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3806.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	62.00 ft			
Tool Length:	90.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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

Shut In Tool	5.00			3783.00	
Hydraulic tool	5.00			3788.00	
Jars	5.00			3793.00	
Safety Joint	3.00			3796.00	
Packer	5.00			3801.00	28.00 Bottom Of Top Packer
Packer	5.00			3806.00	
Stubb	1.00			3807.00	
Recorder	0.00	8791	Inside	3807.00	
Recorder	0.00	8651	Outside	3807.00	
Perforations	4.00			3811.00	
change Over Sub	1.00			3812.00	
Drill Pipe	32.00			3844.00	
Change Over Sub	1.00			3845.00	
Perforations	20.00			3865.00	
Bullnose	3.00			3868.00	62.00 Bottom Packers & Anchor

Total Tool Length: 90.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co.

11-2s-29w Decatur,KS

250 N. Water Ste. 300
Wichita KS 67202

DCFY Unit #1-11

Job Ticket: 50671

DST#: 2

ATTN: Tom Funk

Test Start: 2013.05.12 @ 03:10:00

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: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1400.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	mud-100%m	0.074

Total Length: 15.00 ft Total Volume: 0.074 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8791

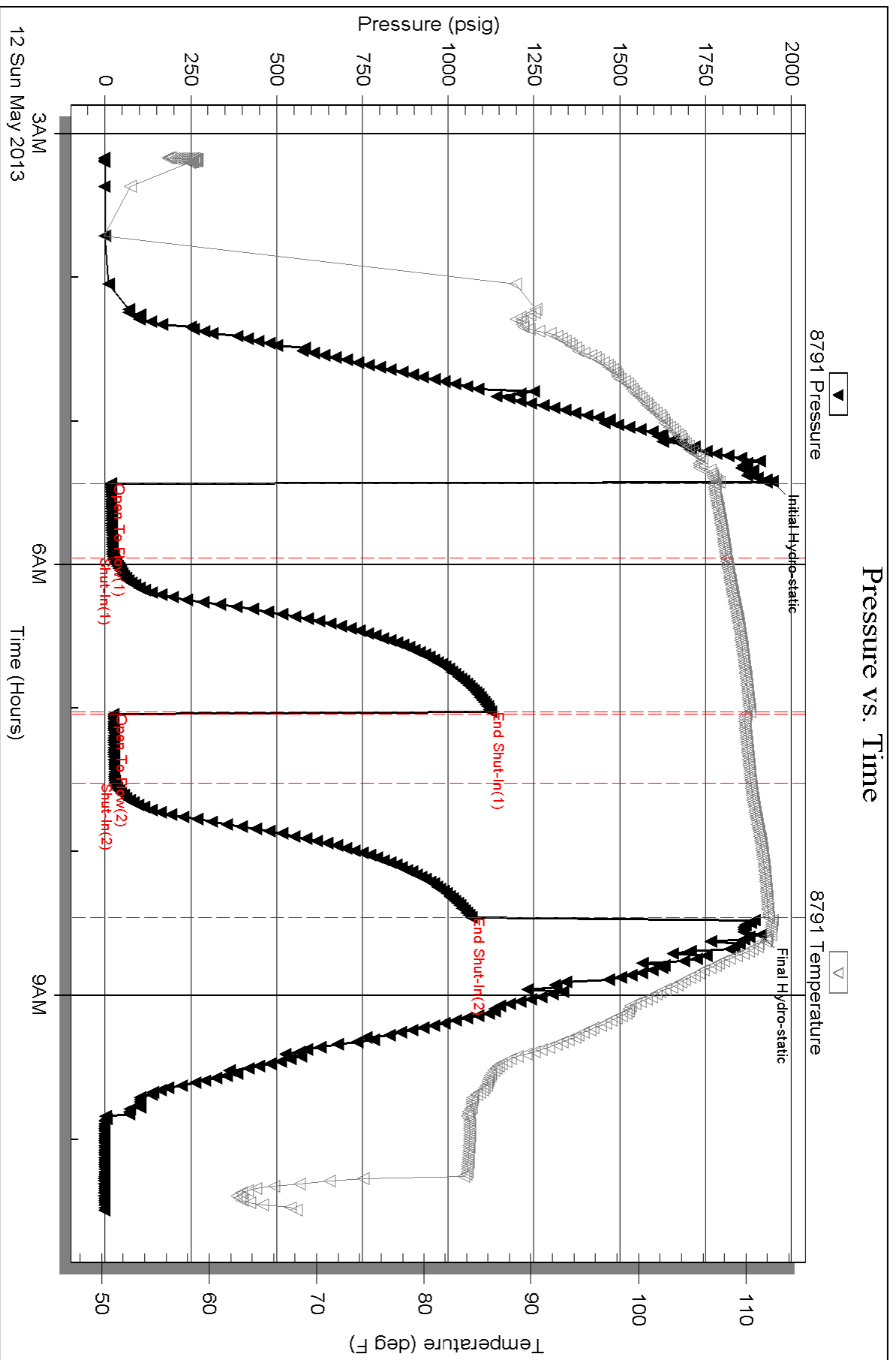
Inside

Murfin Drilling Co.

DCFY Unit #1-11

DST Test Number: 2

Pressure vs. Time

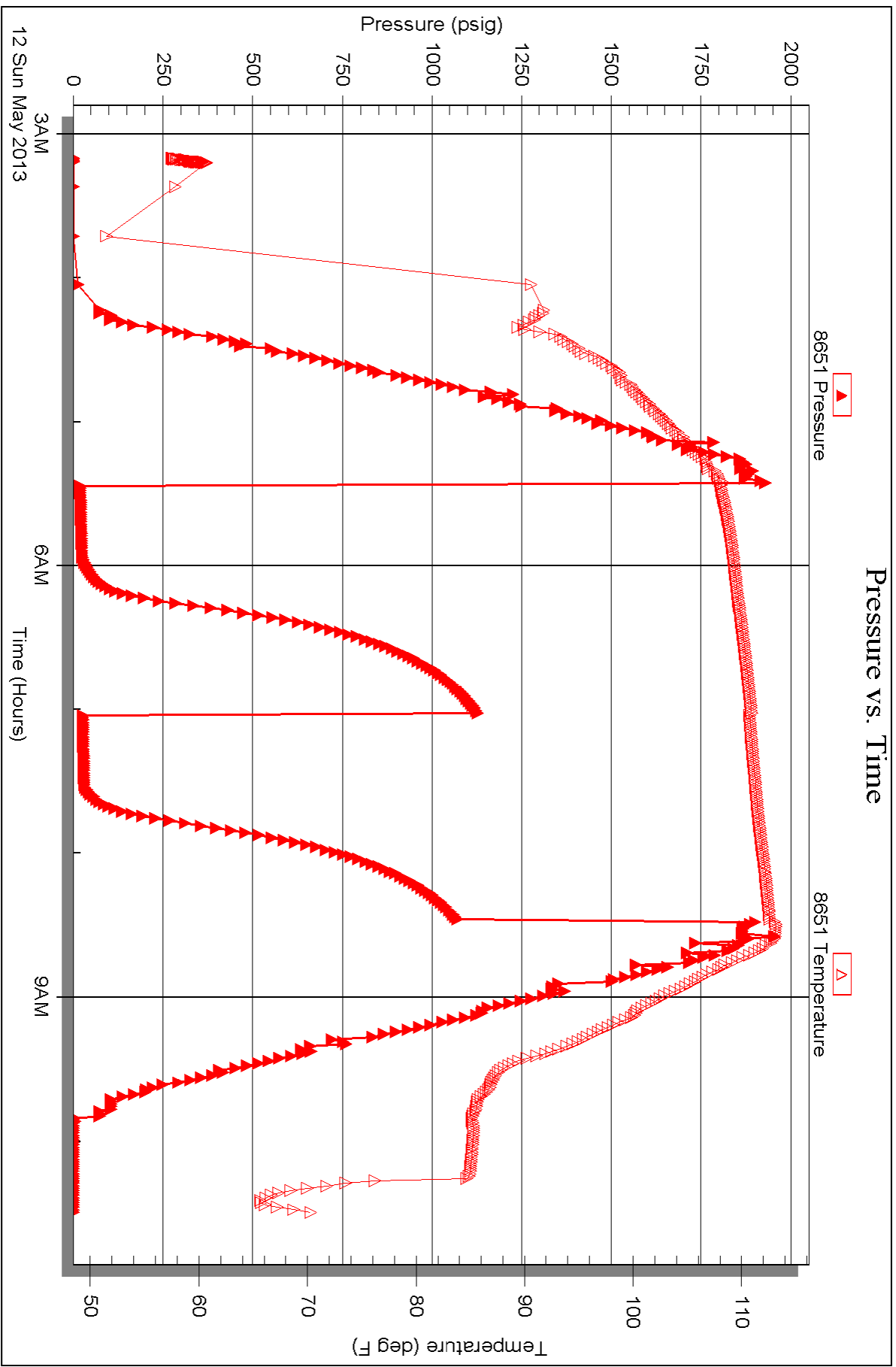


Serial #: 8651

Outside Murfin Drilling Co.

DCFY Unit #1-11

DST Test Number: 2



Batt - Rec
308- 251 bottom
385- 8701 top



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 50670

Well Name & No. OCFY unit #1-11 Test No. 1 Date 5-11-13
 Company Murfin Drilling Co. Elevation 2719 KB 2714 GL
 Address 250 N. Water ste. 300 Wichita Ks. 67202
 Co. Rep / Geo. Tom Funk Rig Murfin #8
 Location: Sec. 11 Twp. 25 Rge. 29W Co. Decatur State Ks

Interval Tested 3666 3725 Zone Tested LRC-A
 Anchor Length 59 Drill Pipe Run 3472 Mud Wt. 8.7
 Top Packer Depth 3661 Drill Collars Run 186 Vis 57
 Bottom Packer Depth 3666 Wt. Pipe Run -0- WL 5.2
 Total Depth 3725 Chlorides 1,000 ppm System LCM 4#

Blow Description IF! Weak blow, Built to 1 1/2 in over 30 mins.
ISI: No blow back over 60 mins.

FF: No blow over 30 mins.

FSI: No blow back over 60 mins.

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>oil</u>		<u>100%</u>		
<u>124</u>	<u>VSWGMO</u>		<u>50</u>	<u>5</u>	<u>45</u>
<u>62</u>	<u>VSWCOM</u>		<u>10</u>	<u>5</u>	<u>85</u>

Rec Total 191 BHT 111 Gravity _____ API RW _____ @ _____ ° F Chlorides _____ ppm

(A) Initial Hydrostatic 1945 Test 1150 T-On Location 4:21
 (B) First Initial Flow 42 Jars 250 T-Started 5:35
 (C) First Final Flow 85 Safety Joint 75 T-Open 7:49
 (D) Initial Shut-In 1127 Circ Sub _____ T-Pulled 11:00
 (E) Second Initial Flow 94 Hourly Standby _____ T-Out 12:55

(F) Second Final Flow 117 Mileage 6x2=12x155= 18.60
 (G) Final Shut-In 1104 Sampler _____
 (H) Final Hydrostatic 1844 Straddle _____

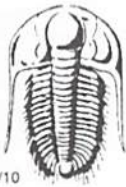
Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____
 Sub Total 1493.60

Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Sub Total 0
 Total 1493.60
 MP/DST Disc't _____

Approved By _____ Our Representative Chuck Huger

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.

785-259-3188



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 50671

Rec TOP 8791 Bottom 8651 = 3.31
= 3.10

Well Name & No. DCFY unit #1-11 Test No. 2 Date 5-12-13
 Company Murfin Drilling Co. Elevation 2719 KB 2714 GL
 Address 250 N. Water Ste. 900 Wichita Ks. 67202
 Co. Rep / Geo. Tom Funk Rig Murfin
 Location: Sec. 11 Twp. 25 Rge. 29W Co. Decatur State Ks

Interval Tested 3806 3868 Zone Tested LKC-HJ
 Anchor Length 62 Drill Pipe Run 3600 Mud Wt. 9.1
 Top Packer Depth 3801 Drill Collars Run 186 Vis 58
 Bottom Packer Depth 3806 Wt. Pipe Run 0 WL 5.6
 Total Depth 3868 Chlorides 1,400 ppm System LCM 5#

Blow Description IF: Weak blow, surface. Dead in 20 mins.

FSI: No blow back over 60 mins

FF: No blow over 30 mins

FSI: No blow back over 60 mins

Rec	Feet of	%gas	%oil	%water	%mud
<u>15</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 10 BHT 111 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1944 Test 1150 T-On Location 2:37
 (B) First Initial Flow 18 Jars 250 T-Started 3:10
 (C) First Final Flow 25 Safety Joint 75 T-Open 5:26
 (D) Initial Shut-In 1125 Circ Sub _____ T-Pulled 8:30
 (E) Second Initial Flow 24 Hourly Standby _____ T-Out 10:30
 (F) Second Final Flow 28 Mileage 37.20
 (G) Final Shut-In 1068 Sampler _____
 (H) Final Hydrostatic 1911 Straddle _____

Initial Open 30 Shale Packer _____
 Initial Shut-In 60 Extra Packer _____
 Final Flow 30 Extra Recorder _____
 Final Shut-In 60 Day Standby _____
 Sub Total 1512.20 Accessibility _____
 Total 1512.20 Ruined Shale Packer _____
 MP/DST Disc't _____ Ruined Packer _____
 Sub Total 1512.20 Extra Copies _____
 Sub Total 0
 Total 1512.20

Approved By _____ Our Representative Chuck [Signature]

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



acct Prod-LH

INVOICE

PO Box 93999
Southlake, TX 76092

Invoice Number: 136166
Invoice Date: May 7, 2013
Page: 1

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

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

Now Includes:



Customer ID	Field Ticket #	Payment Terms	
Murfin	60288	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	May 7, 2013	6/6/13

Quantity	Item	Description	Unit Price	Amount
190.00	MAT	DCFY #1-11		
		Class A Common	17.90	3,401.00
7.00	MAT	Chloride	64.00	448.00
199.50	SER	Cubic Feet	2.48	494.76
552.00	SER	Ton Mileage	2.60	1,435.20
1.00	SER	Surface	1,512.25	1,512.25
60.00	SER	Pump Truck Mileage	7.70	462.00
1.00	SER	Swedge Manifold Rental	275.00	275.00
60.00	SER	Light Vehicle Mileage	4.40	264.00
1.00	CEMENTER	Darren Racette		
1.00	EQUIP OPER	Tyler Flipse		
1.00	OPER ASSIST	Brandon Wilkinson		

Subtotal	8,292.21
Sales Tax	280.98
Total Invoice Amount	8,573.19
Payment/Credit Applied	
TOTAL	8,573.19

ALL PRICES ARE NET, PAYABLE 30 DAYS FOLLOWING DATE OF INVOICE. 1 1/2% CHARGED THEREAFTER. IF ACCOUNT IS CURRENT, TAKE DISCOUNT OF *35%*

\$ 2,902.27 *✓*

ONLY IF PAID ON OR BEFORE
Jun 1, 2013

-2902.27

(15M)

5670.92

ALLIED OIL & GAS SERVICES, LLC 060288

Federal Tax I.D. # 20-8651476

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT

Oakley

DATE <u>5/7/13</u>	SEC. <u>11</u>	TWP. <u>2</u>	RANGE <u>29</u>	CALLED OUT	ON LOCATION	JOB START <u>6:00 Pm</u>	JOB FINISH <u>6:30 Pm</u>
LEASE <u>DCFY</u>	WELL # <u>1-11</u>	LOCATION <u>Oberlin 4N-1/2W-N into</u>			COUNTY <u>Decatur</u>	STATE <u>Ks</u>	
OLD OR <input checked="" type="radio"/> NEW (Circle one)							

CONTRACTOR Murfin #8
TYPE OF JOB Surface
HOLE SIZE 12 1/4 TD. 218
CASING SIZE 8 5/8 DEPTH 218
TUBING SIZE DEPTH
DRILL PIPE DEPTH
TOOL DEPTH
PRES. MAX MINIMUM
MEAS. LINE SHOE JOINT
CEMENT LEFT IN CSG. 15'
PERFS.
DISPLACEMENT 12.99

OWNER Same
CEMENT
AMOUNT ORDERED 190 SKs Com 3% CC

EQUIPMENT
PUMP TRUCK CEMENTER Darren Racette
120 HELPER Tyler Flipse
BULK TRUCK
600 DRIVER Brandon Wilkinson
BULK TRUCK
DRIVER

COMMON 190 SKs @ 17.20 \$ 3401.00
POZMIX @
GEL @
CHLORIDE 7 SKs @ 64.00 \$ 448.00
ASC @
@
@
@
@
@
@

REMARKS:
Mix 190 SKs Cement
Displace with water
Cement Did Circulate
5 bbl Cement To T17

HANDLING 199.5 CPX @ 2.48 \$ 494.76
MILEAGE 9.20 X 60X @ 2.00 \$ 1435.20
TOTAL \$ 5778.96

Thank You.

SERVICE

DEPTH OF JOB
PUMP TRUCK CHARGE \$ 1512.25
EXTRA FOOTAGE @
MILEAGE 60 @ 7.70 \$ 462.00
MANIFOLD Sledge @ 2.75 \$ 2.75
LU mileage @ 4.40 \$ 264.00
@

CHARGE TO: Murfin
STREET
CITY STATE ZIP

TOTAL \$ 2513.25

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)
TOTAL CHARGES 8,292.21
DISCOUNT 2,902.27 IF PAID IN 30 DAYS
5,389.93 Net.

PRINTED NAME Rodney Fan
SIGNATURE Rodney Fan



CONSOLIDATED
Oil Well Services, LLC

REMIT TO
Consolidated Oil Well Services, LLC
Dept. 970
P.O. Box 4346
Houston, TX 77210-4346

MAIN OFFICE
P.O. Box 884
Chanute, KS 66720
620/431-9210 • 1-800/467-8676
Fax 620/431-0012

INVOICE

Invoice # 258765

Invoice Date: 05/14/2013 Terms: 10/10/30,n/30

Page 1

MURFIN DRILLING
P.O. BOX 288
RUSSELL KS 67665
() -

DCFY 1-11
39957
11-2-29
05-13-2013
KS

USED FOR IC-103
APPROVED [Signature]

Part Number	Description	Qty	Unit Price	Total
1126	OIL WELL CEMENT	200.00	23.7000	4740.00
1111A	SODIUM METASILICATE	200.00	2.5200	504.00
1102	CALCIUM CHLORIDE (50#)	240.00	.9400	225.60
1142A	KCL SUB MB6875 CC3107 (1	2.00	41.1000	82.20
4104	CEMENT BASKET 5 1/2"	2.00	290.0000	580.00
4136	TURBOLIZER 5 1/2"	10.00	75.7500	757.50
4159	FLOAT SHOE AFU 5 1/2"	1.00	433.7500	433.75
4285	5 1/2" PORT COLLAR	1.00	2178.7500	2178.75
4315	ROTATING SCRATCHERS	5.00	94.5000	472.50
4454	5 1/2" LATCH DOWN PLUG	1.00	318.2500	318.25
4310	ROTATING HEAD	1.00	150.0000	150.00

Sublet Performed	Description	Total
9996-130	CEMENT MATERIAL DISCOUNT	-1044.26
9995-130	CEMENT EQUIPMENT DISCOUNT	-458.55

Description	Hours	Unit Price	Total
399 SINGLE PUMP	1.00	3175.00	3175.00
399 EQUIPMENT MILEAGE (ONE WAY)	65.00	5.25	341.25
566 TON MILEAGE DELIVERY	1.00	1069.25	1069.25

Amount Due 15790.35 if paid after 06/13/2013

Parts:	10442.55	Freight:	.00	Tax:	686.07	AR	14211.31
Labor:	.00	Misc:	.00	Total:	14211.31		
Sublt:	-1502.81	Supplies:	.00	Change:	.00		

Signed _____

Date _____

BARTLESVILLE, OK
918/338-0808

EL DORADO, KS
316/322-7022

EUREKA, KS
620/583-7664

PONCA CITY, OK
580/762-2303

OAKLEY, KS
785/672-8822

OTTAWA, KS
785/242-4044

THAYER, KS
620/839-5269

GILLETTE, WY
307/686-4914

CUSHING, OK
918/225-2650



CONSOLIDATED
Oil Well Services, LLC

258765

TICKET NUMBER 39957

LOCATION Oakley KS

FOREMAN Miles Shaw

Walt Dineen

PO Box 884, Chanute, KS 66720
620-431-9210 or 800-467-8676

FIELD TICKET & TREATMENT REPORT

CEMENT

KS

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
5-13-13	5406	DCFY # 1-11	11	25	29W	Decatur
CUSTOMER <u>Murkin Drilling</u>			Oberlin 4N 1/2W N into			
MAILING ADDRESS			TRUCK #	DRIVER	TRUCK #	DRIVER
CITY			5889	Damon M		
STATE			5266	M. H. P		
ZIP CODE						

JOB TYPE long string HOLE SIZE 7 7/8" HOLE DEPTH 4025' CASING SIZE & WEIGHT 5 1/2" 15.5#
 CASING DEPTH 4020.12' DRILL PIPE _____ TUBING _____ OTHER PC @ 2440'
 SLURRY WEIGHT 13.8 SLURRY VOL 1.42 WATER gal/sk _____ CEMENT LEFT in CASING 21.64'
 DISPLACEMENT 95% bbh DISPLACEMENT PSI 800 MIX PSI 1400 RATE _____

REMARKS: Safety Meeting and rig up on Murkin Drilling Rig #2 float equipment
Turbulizers on joints 1, 2, 3, 4, 5, 6, 7, 8, 9, 37 basket on bottom of joints 37, 38
PC tool @ 2440' on top of joint #38. Run casing to bottom circulate casing 1 hr
Pump 5bbh water Calcium 5bbh water Metasilicate 5bbh water mix 150 sls 2WC down
Casing shut down checked pump & lines Released plug dis placed 95% bbh water
Flow 20 sls KCL water @ 95% lift Plug landed & hold 1400 psi. Pumped 30 sls
bbh 20 sls meths

Thanks Miles & crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5406	1	PUMP CHARGE	3175.00	3175.00
5406	65	MILEAGE	5.25	341.25
5407A	9.4 tons	Ten Miles delivery	1.75	1069.25
1126	200 sls	OWE	23.70	4740.00
111A	200 #	Metasilicate	2.52	504.00
1102	240 #	Calcium Chloride	.94	225.60
1142A	2 gal	KCL	41.10	82.20
4104	2	5 1/2" Cement baskets	290.00	580.00
4136	10	5 1/2" Turbulizers	75.75	757.50
4159	1	5 1/2" AFU float shoe	433.75	433.75
4295	1	5 1/2" Port collar tool	2178.75	2178.75
4315	5	Rotating Scratchers	94.50	472.50
4454	1	5 1/2" latch dump plug	318.25	318.25
4310	1	Rotating head	150.00	150.00
		Subtotal		15028.05
		less 1092 discount		15028.05
		Subtotal		13525.24
		SALES TAX		686.07
		ESTIMATED TOTAL		14211.31

Completed

Revin 3737

AUTHORIZATION

Bruce Salas

TITLE

DATE

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.