



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1193101
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: _____

1193101

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

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> _____ <input type="checkbox"/> Commingled <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
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MDCI Burk Trust 'B' #1-14 330' FNL 1920' FEL Sec. 14-T1S-R36W 3280' KB							MDCI Burk Trust 'A' #1-23 2225' FNL 330' FWL Sec. 23-T1S-R36W 3225' KB	
Formation	Sample top	Datum	Ref	Log Top	Datum	Ref	Log Top	Datum
Anhydrite	3196	+84	-16	3206	+74	-26	3125	+100
B/Anhydrite	3229	+51	-16	3244	+36	-31	3158	+67
Neva	3682	-402	-20	3694	-414	-32	3607	-382
Red Eagle	3748	-468	-26	3756	-476	-34	3667	-442
Foraker	3796	-516	-25	3803	-523	-32	3716	-491
Topeka	4008	-728	-19	4013	-733	-24	3934	-709
Oread	4113	-833	-16	4129	-849	-32	4042	-817
Lansing	4216	-936	-17	4230	-950	-31	4144	-919
Stark	4438	-1158	-18	4446	-1166	-26	4365	-1140
BKC	4486	-1206	-16	4497	-1217	-27	4415	-1190
Pawnee	4598	-1318	----	4620	-1340	----	DNR	
Cherokee	4675	-1395	----	4702	-1422	----	DNR	
Mississippi	DNR						DNR	
RTD	4800	-1520					4520	-1295
LTD				4810	-1530		4520	

M. Bradford Rine

Consulting Geologist, Licensed and Certified

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

Well Name: Burk Trust "B" #1-14 - Murfin Drilling Co., Inc.
Location: W2-NE-NW-NE, 14-T01S-R36W
License Number: API: 15-153-20959-00-00
Spud Date: November 12, 2013
Surface Coordinates: 330' FNL & 1920' FEL'
of Section
Bottom Hole Vertical Wellbore
Coordinates: Wildcat
Ground Elevation (ft): 3275 Ft. K.B. Elevation (ft): 3280 Ft.
Logged Interval (ft): 3550 Ft. To: 4800 Ft. Total Depth (ft): RTD 4800 Ft. LTD 4810 Ft.
Formation: (Cherokee) Near basal Pennsylvanian
Type of Drilling Fluid: Chemical

Region: Rawlins Co, Kansas
Drilling Completed: November 23, 2013
5-1/2" Casing Set

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

Operator

Company: Murfin Drilling Company, Inc.
Address: 250 North Water, Suite #300
Wichita, Kansas 67202

Geologist

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

Remarks

Based on sample observations, drill stem test results, and electric log evaluation, it was the decision of the Operator, to set production casing for further testing, on the "Burk Trust B #1-14", on November 23, 2013.

Respectfully submitted,
M. Bradford Rine, Geologist

Burk Trust "B" #1-14
Section 14-01S-36W, Rawlins County, Kansas



	Murfin Drilling Co., Inc.			Murfin	(Well A)	
	Burk Trust "B" 1-14			Burk Trust "A" 1-23		
	330' FNL & 1920' FEL			2225' FNL & 330' FWL		
	Sec. 14-01S-36W			Sec. 23-01S-36W		
	3280 Ft. KB			3225 Ft. KB		Well A
Formations	Sample	E-Log	Datum	E-Log	Datum	Comp.
Anhydrite	3196	3206	74	3125	100	-26
B/Anhydrite	3233	3242	38	3158	67	-29
Neva	3682	3694	-414	3607	-382	-32
Red Eagle	3748	3756	-476	3667	-442	-34
Foraker	3794	3754	-474	3716	-491	17
Topeka	4006	4013	-733	3934	-709	-24
Oread	4119	4129	-849	4042	-817	-32
Lansing	4220	4230	-950	4144	-919	-31
Stark Sh	4438	4446	-1166	4365	-1140	-26
B/Kansas City	4486	4496	-1216	4415	-1190	-26
Marmaton	4522	4534	-1254	4450	-1225	-29
Pawnee	4608	4620	-1340	DNP		
Lwr Pawnee	4630	4690	-1410	DNP		
Ft. Scott	4672	4686	-1406	DNP		
Cherokee Sh	4688	4698	-1418	DNP		
Total Depth	4800	4810	-1530	4520	-1295	-235

Drilling Information

Rig: Murifn Drilling, Rig #8
Pump: National K-380 6 x 14
Drawworks: Ideco H-35
Collars: 497' 2-1/4 x 6-1/4
Drillpipe: 4-1/2" 16.6#
Toolpusher: Rodney Farr

Mud: Morgan Mud (Dave Lines)
Gas Detector: None
Drill Stem Tests: Trilobite (Shane McBride, Kevin Mack)
Logs: Pioneer (D. Schmidt)
Water: Trucked In Frisbie lease (Murfin Tank)
Company Representatives:
Office: Scott Robinson
Field: Glenn Wahrman

Daily Drilling Status

Date: Operations/Depth/Comments
11-12-13 MIRT, RU, Spud @ 0'
11-13-13 WOC, Drill out @ 6:45 am @ 260'
11-14-13 Drilling @ 2233'
11-15-13 Drilling @ 3300'
11-16-13 Trip Out of Hole For DST 1 @ 3815'
11-17-13 Drilling @ 4090'
11-18-13 Drilling @ 4180'
11-19-13 Trip Back in Hole after DST #3 @ 4250'
11-20-13 Drilling @ 4340'
11-21-13 Drilling @ 4410'
11-22-13 Drilling @ 4500'
11-23-13 Logging @ 4800'
11-24-13 Plug Down on Cement job at 5:00 AM

Casing Record, Bit Record, Deviation Surveys

CASING:

Conductor: None

Surface: Spud 3:00 pm 11/12/13. Ran 6 jts, 8-5/8" 23#, set @ 260'. (Allied) Sement with 230 sx Common, 03% CC. PD @ 8:30 PM. Cement did circulate.

Production:

Ran 114jts of 15.5# 5½" surf csg, set @ 4793'. (Consolidated) C.O.W.S cmt w/250sxs CMS, 200sxs OWC. PD @ 5:00AM, 30sxs RH, 20sxs MH. Circ. 20BBLs.

BITS:

No.	Size	Make	Model	Depth In	Depth Out	Hours
1	12-1/4	HTC	MXC	0	260	2.75
2	7-7/8	HTC	GX20C	260	3815	59.75
3	7-7/8	HTC	GX20C	3815	4800	48.75

DEVIATION SURVEYS:

Deviation:	Depth:	Deviation:	Depth:
1.25*	260'	.75*	4293'
1.00*	3815'	1.25*	4800'

DST #1: 3757-3815 (Foraker)

Times: 30-60-30-60

Initial Open: Wk, surf blow died 24-min.

Final Open: None

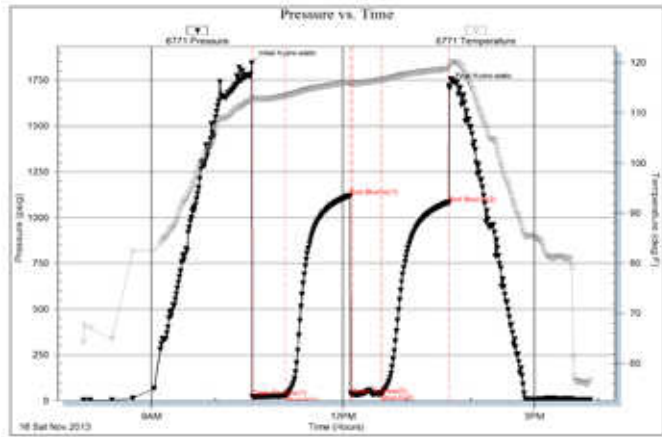
Rec: 5' HMCO: 50%o 50%m

IHP: 1842 FHP: 1718

IFP: 23-27 FFP: 32-38

ISIP: 1119 FSIP: 1080

BHT: 119°F



DST #2: 4078-4127 (Oread)

Times: 30-60-60-90

Initial Open: Wk, built to 3" i.bb.

Final Open: Fr, built to 5.25" i.b.

Rec: 240' Total Fluid

60' OSWM: 10%w 90%m

60' OSWM: 30%w 70%m

60' OSWM: 50%w 50%m

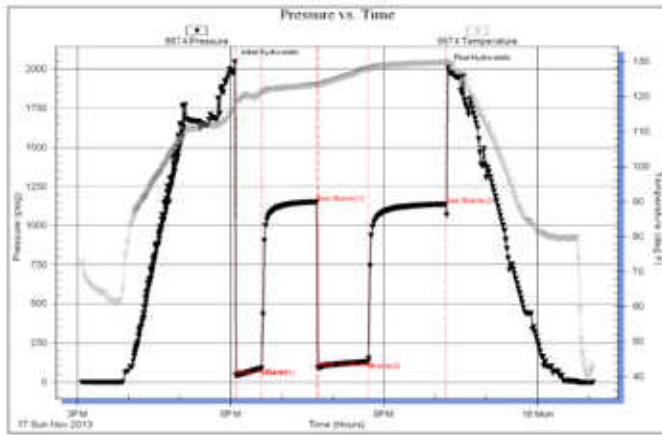
60' OSWM: 60%w 40%m

IHP: 2043 FHP: 2007

IFP: 40-86 FFP: 91-130

ISIP: 1151 FSIP: 1137

BHT: 130°F



DST #3: 4158-4250 (Lsg A)

Times: 30-60-30-60

Initial Open: Wk, built to 1.25" i.b.

Final Open: None

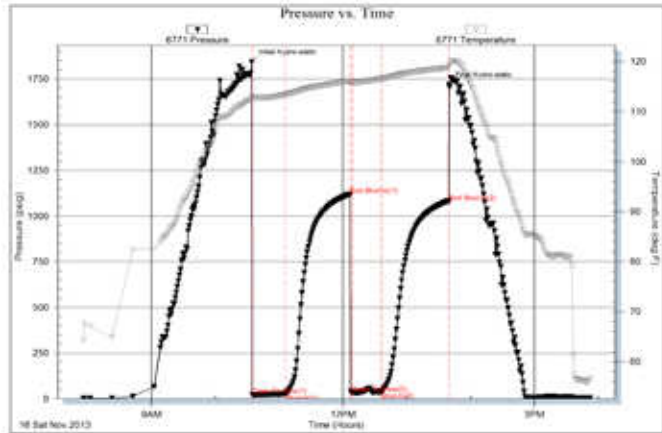
Rec: 10' mud

IHP: 2058 FHP: 2036

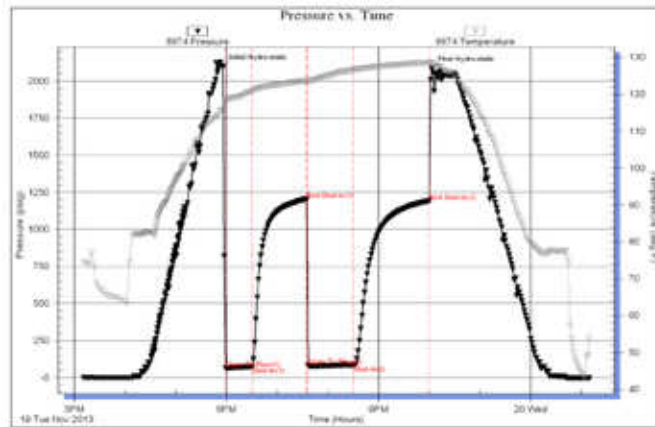
IFP: 17-22 FFP: 24-25

ISIP: 1038 FSIP: 975

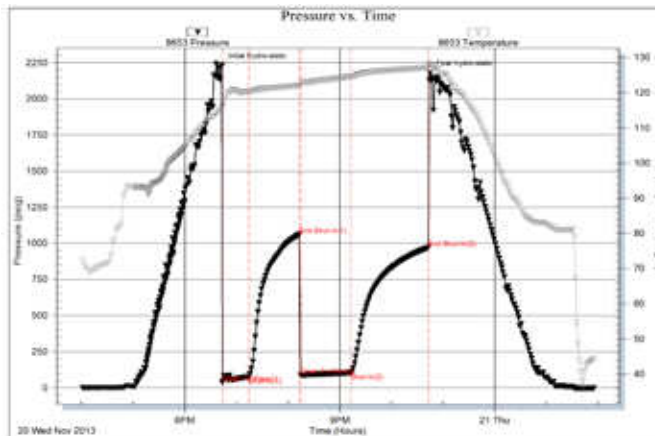
BHT: 128°F



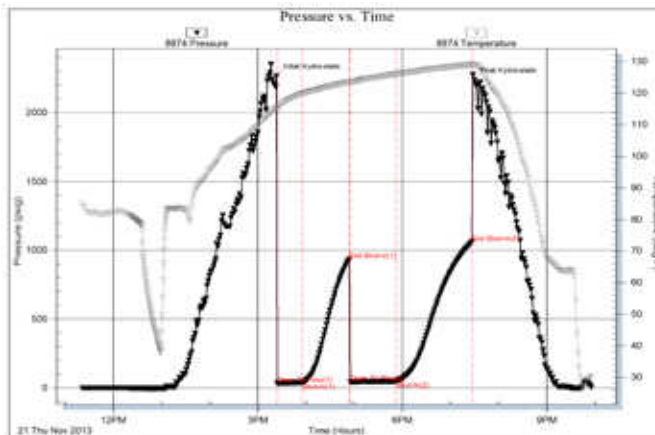
DST #4: 4236-4293 (Lsg D)
Times: 30-60-60-90
Initial Open: Wk, built to 1" i.b.
Final Open: Wk, built to 1" i.b.
Rec: 122' mud/sso in tool
*** Slid tool 10' to bottom!**
IHP: 2094 FHP: 2082
IFP: 64-74 FFP: 83-84
ISIP: 1204 FSIP: 1192
BHT: 129°F



DST #5: 4287-4402 (LKC G,G',H,I)
Times: 30-60-60-90
Initial Open: Stg, b.o.b. 22 min
Final Open: Stg, b.o.b. 15 min
Rec: 226' Total Fluid
40' Oil
62' MCO: 60%o 40%m
62' HMCO: 50%o 50%m
62' OCM: 30%o 70%m
(Gr Oil 34 API)
IHP: 2226 FHP: 2175
IFP: 36-75 FFP: 88-103
ISIP: 1059 FSIP: 968
BHT: 127°F



DST #6: 4391-4440 (LKC J)
Times: 30-60-60-90
Initial Open: Wk, built to 2" i.b.
Final Open: Wk, Built to 3/4", then
died in 40 min
Rec: 60' Oil Spotted Mud
IHP: 2262 FHP: 2233
IFP: 32-37 FFP: 43-49
ISIP: 930 FSIP: 1056
BHT: 129°F



Rock Types

Anhy	Carb shale/Coal	Lmst	Shcol	Siltysh
Bent	Congl	Meta	Shgy	Shlysiltst
Brec	Dol	Mrlst	Sltst	Sandyls
Cht	Gyp	Salt	Ss	
Clyst	Igne	Shale	No descriptions	

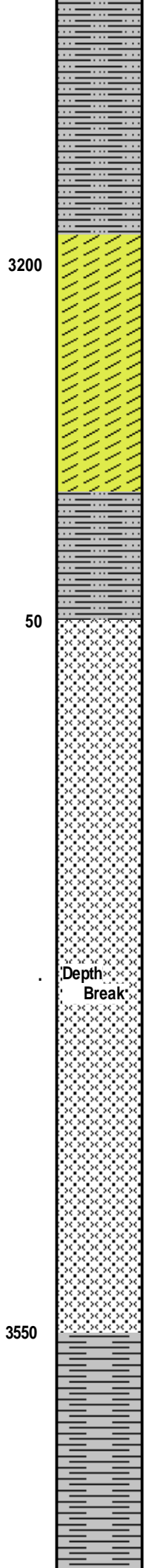
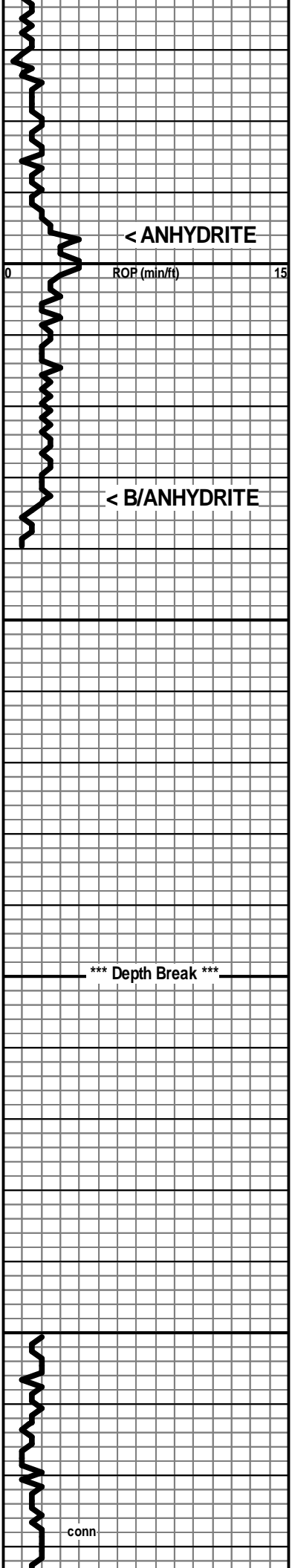
Accessories

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

Other Symbols

OIL SHOW	Spotted/patchy	Gas	INTERVAL
Gas show	Trace/questionable		Core
Even	Dead		Dst

ROP (min/ft) ROP (min/ft)	Depth	Lithology	Geological Descriptions	Remarks
0	3100			Lost Circulation: 40 bbl @ 1800', 20 bbl @ 1920', 20 bbl @ 1980'
15	50			



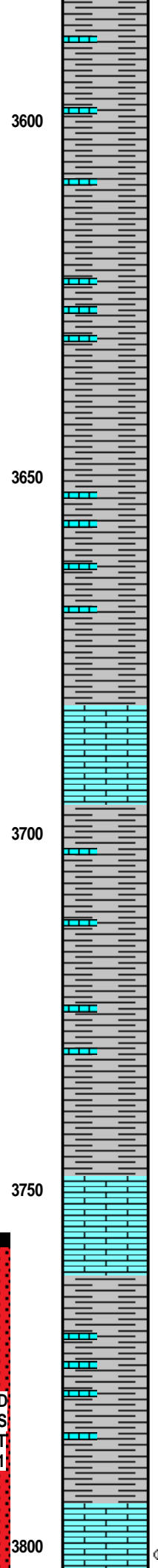
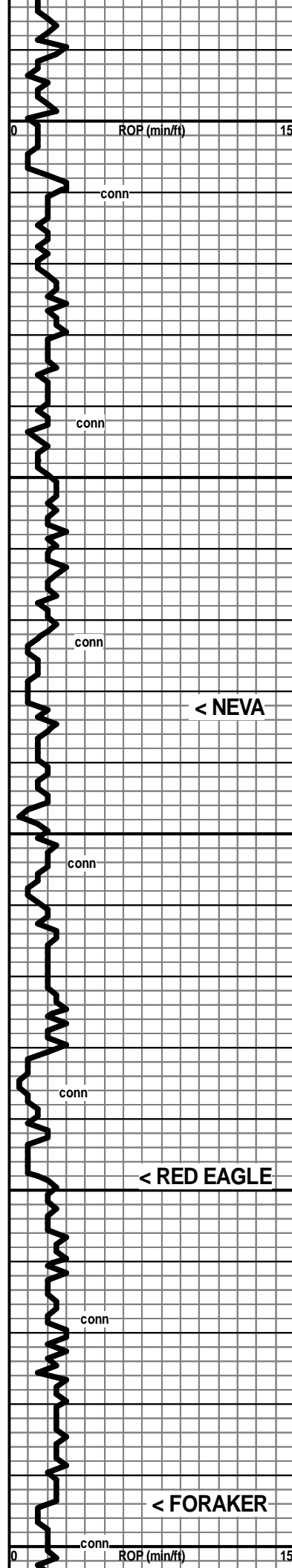
←----- 3196 (+84)

Anhydrite Interval based on drill time only!

←----- 3233 (+47)

Displace & Mudup @
3380 ft.

90% Red shales, msuhy-soft (washes red), 10% Ls wh, fn xln
(mostly masked by the shale)



90% Red shales, msuhy-soft (washes red), 10% Ls wh, fn xln (mostly masked by the shale)

90% Red shales, msuhy-soft (washes red), 10% Ls wh, fn xln (mostly masked by the shale)

←----- 3682 (-402)
 Ls wh, fn xln, pr-fr xln por? Abund foss, Ls is mostly masked by the red passty-mushy shale
 (3720' spl 30% Ls)
 [No Show]

Sh red, mushy-pastey, Rr dk gy pcs, trace of Ls

←----- 3748 (-468)
 Ls pl gy-grnish, fn xln, silty text in pt, scatt pr-fr xln por, foss-abund foss
 [No Show]

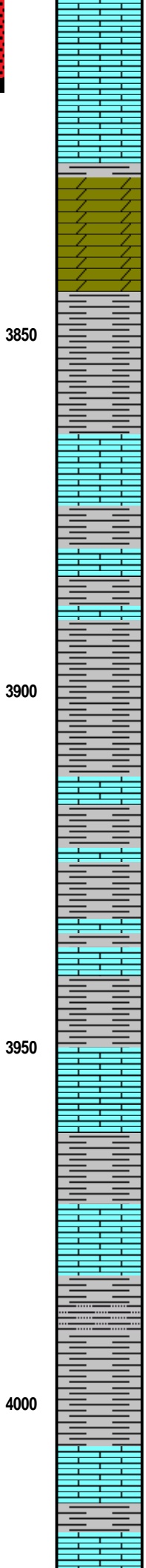
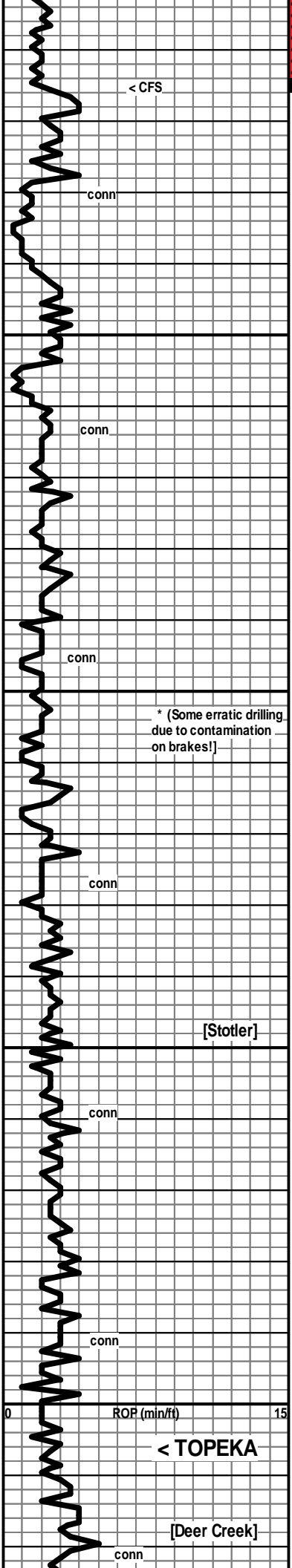
Sh red, pastey-mushy-soft, subsilty-silty-earthy text, small % Ls in spls

←----- 3794 (-514)
 Ls wh-cr, fn xln, abund pr xln por, mealy text in pt, scatt fr xln por, scatt pp pores, scatt sm vugs, foss-abund foss

Short Trip 45 Stds @
 3815 ft, before DST 1.

Pipe Strap: 1.60 ft long
 to board!

DST #1: 3757-3815 (Foraker)
 Times: 30-60-30-60
 Initial Open: Wk, surf blow died 24-min.
 Final Open: None
 Rec: 5' HMCO: 50%o 50%
 IHP: 1842 FHP: 1718
 IFP: 23-27 FFP: 32-38
 ISIP: 1119 FSIP: 1080
 BHT: 119°F



[V Fnt Odor, scatt v dull fluor, abund even-spotty lt tan spotty-dk brn sat. stn, mix sli-fr-gd shows of oily film-tan FO-brn FO]

Ls tan-gy, vfn-fn xln, dns, grainy text in pt, foss in pt

Dol cr-tan-brn-gy, fn xln, subsucrosic-sucrosic text, pr-fr xln por, scatt pp pores, micro foss-foss in pt
[No Show]

3850

Sh red-gy-dk gy

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

Sh gy-red

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

3900

Sh gy-red

* (Some erratic drilling due to contamination on brakes!]

Ls cr-gy, fn xln, dns, some subchalky, foss

Sh red-gy

Ls wh-cr-gy, fn xln, dns in pt, soft & chalky in pt, foss-abund foss
[No Show]

3950

Sh gy-grnish, some red

Ls wh-cr. some stn'd red with red shale, fn xln, dns, foss

Sh red, pasty-mushy (washes deep red)

Ls wh, fn xln, dns

Sh red-grm, mostly pasty-mushy, some silty text and more firm

4000

Sh red, pasty-mushy (washes red)

< TOPEKA

←----- 4006 (-726)

Ls wh, fn xln, abund red shale filled pores and fractures, foss

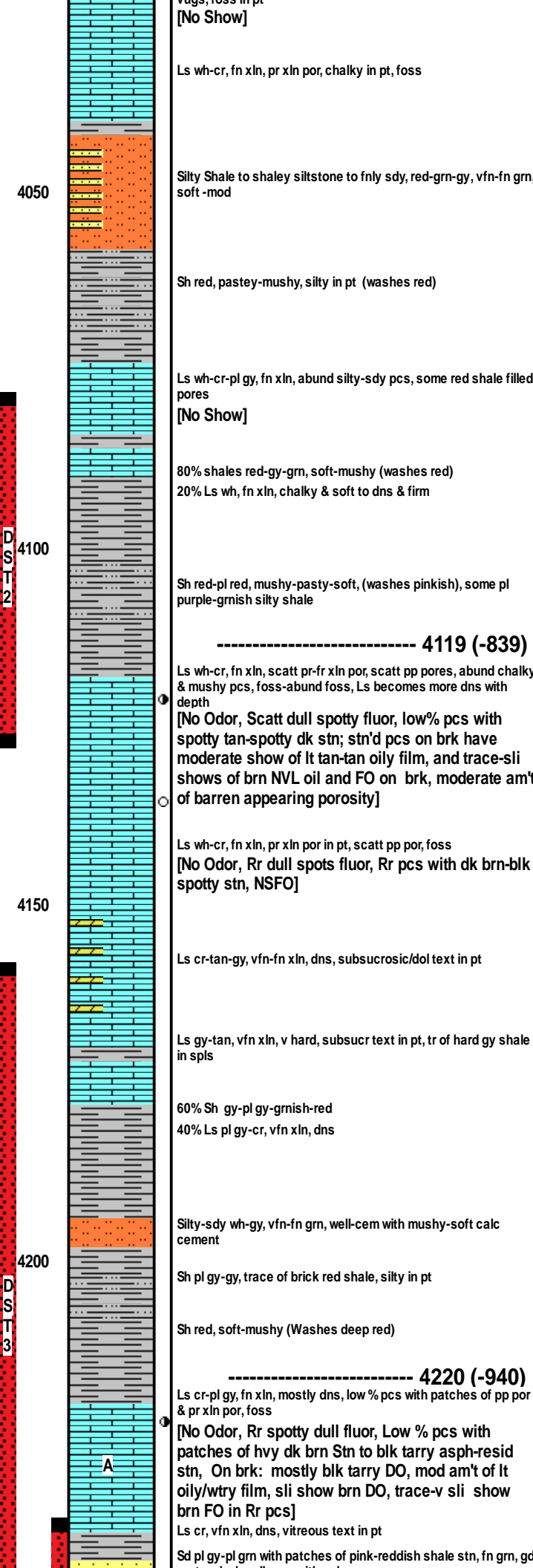
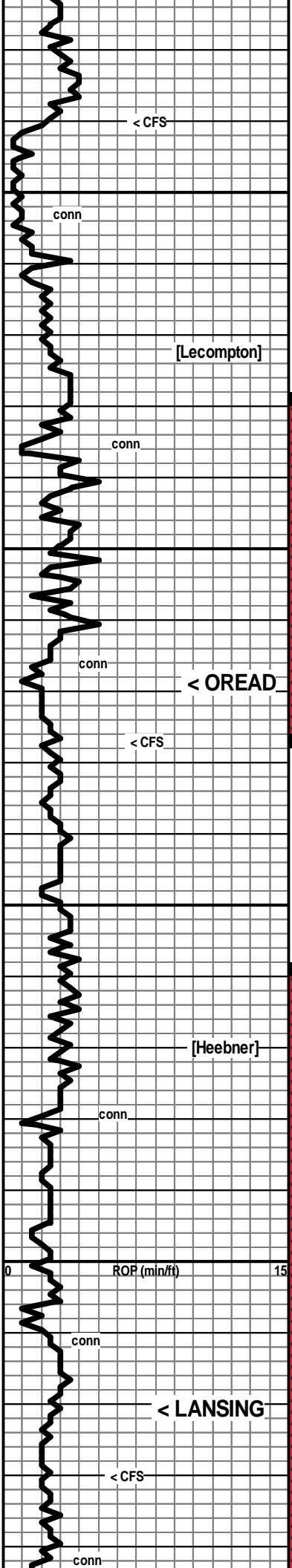
Sh red, mushy (washes red)

Ls wh, fn xln, pr vis xln por, some red shale filled pores and vugs, foss in pt

7:00 AM, November 16, 2013

Mud Check, OB/DST 1 @ 3815:

Vis	Wt	WL	LCM	PV	YP
57	8.9	6.0	6	18	18
Chl	Hd	pH	Solids		
900	10	11.0	4.3		



[No Show]

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

Silty Shale to shaley siltstone to fnly sdy, red-grn-gy, vfn-fn grn, soft-mod

Sh red, pastey-mushy, silty in pt (washes red)

Ls wh-cr-pl gy, fn xln, abund silty-sdy pcs, some red shale filled pores

[No Show]

80% shales red-gy-grn, soft-mushy (washes red)
20% Ls wh, fn xln, chalky & soft to dns & firm

Sh red-pl red, mushy-pasty-soft, (washes pinkish), some pl purple-grnsh silty shale

----- 4119 (-839)

Ls wh-cr, fn xln, scatt pr-fr xln por, scatt pp pores, abund chalky & mushy pcs, foss-abund foss, Ls becomes more dns with depth

[No Odor, Scatt dull spotty fluor, low% pcs with spotty tan-spotty dk stn; stn'd pcs on brk have moderate show of lt tan-tan oily film, and trace-sli shows of brn NVL oil and FO on brk, moderate amt of barren appearing porosity]

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

[No Odor, Rr dull spots fluor, Rr pcs with dk brn-blk spotty stn, NSFO]

Ls cr-tan-gy, vfn-fn xln, dns, subsucrosic/dol text in pt

Ls gy-tan, vfn xln, v hard, subsucr text in pt, tr of hard gy shale in spl

60% Sh gy-pl gy-grnsh-red
40% Ls pl gy-cr, vfn xln, dns

Silty-sdy wh-gy, vfn-fn grn, well-cem with mushy-soft calc cement

Sh pl gy-gy, trace of brick red shale, silty in pt

Sh red, soft-mushy (Washes deep red)

----- 4220 (-940)

Ls cr-pl gy, fn xln, mostly dns, low % pcs with patches of pp por & pr xln por, foss

[No Odor, Rr spotty dull fluor, Low % pcs with patches of hvy dk brn stn to blk tarry asph-resid stn, On brk: mostly blk tarry DO, mod amt of lt oily/wtry film, sli show brn DO, trace-v sli show brn FO in Rr pcs]

Ls cr, vfn xln, dns, vitreous text in pt

Sd pl gy-pl grn with patches of pink-reddish shale stn, fn grn, gd

7:00 AM, November 17, 2013

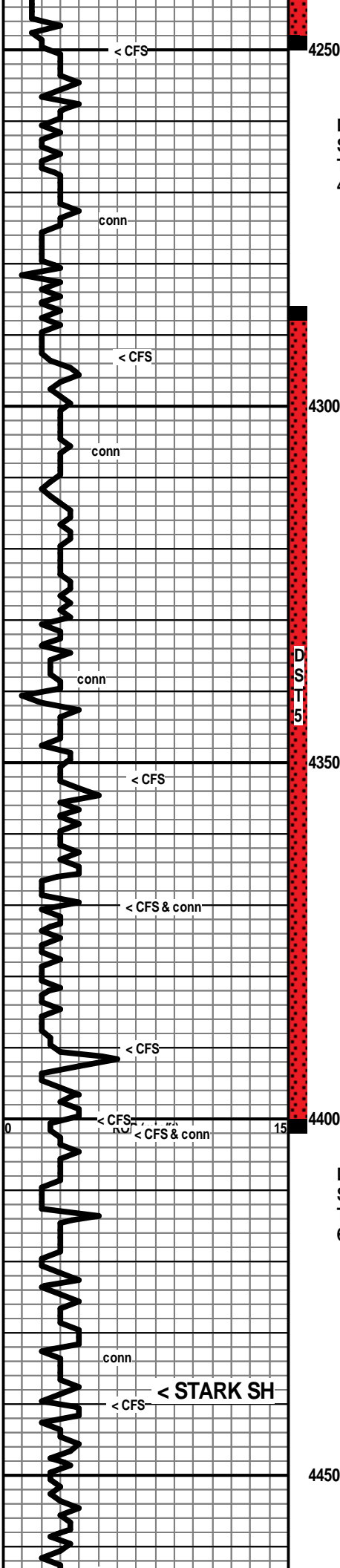
DST #2: 4078-4127 (Oread)
Times: 30-60-60-90
Initial Open: Wk, built to 3" i.bb.
Final Open: Fr, built to 5.25" i.b.
Rec: 240' Total Fluid
60' OSWM: 10%w 90%
60' OSWM: 30%w 70%
60' OSWM: 50%w 50%
60' OSMW: 60%w 40%
IHP: 2043 FHP: 2007
IFP: 40-86 FFP: 91-130
ISIP: 1151 FSIP: 1137
BHT: 130°F
(Mud man checked Chl @ 27,000)

Mud Check, CTCH/DST2 @ 4127':
Vis Wt WL LCM PV YP
62 9.1 5.6 5 19 21
Chl Hd pH Solids
1100 10 11.5 5.7

7:00 AM, November 18, 2013

DST #3: 4158-4250 (Lsg A)
Times: 30-60-30-60
Initial Open: Wk, built to 1.25" i.b.
Final Open: None
Rec: 10' mud
IHP: 2058 FHP: 2036
IFP: 17-22 FFP: 24-25
ISIP: 1038 FSIP: 975
BHT: 128°F

Mud Check, CTCH @ 4250':
Vis Wt WL LCM PV YP
60 9.1 5.6 6 18 20



sort, subrd, well-cem with calc cem

[No Show]
Sh gy-red, foss in pt

Sh red-gy-grnsh-dk gy, silty in pt, earthy text in pt (washes red)

Ls wh-cr, fn xln, mostly dns with patches of pr xln por & pp por, Rr sm vugs, scatt closed fracturing, foss (spl remained 75% shales)

[No Odor, Scatt spotty-sm patches fluor, patchy brn-dk brn-blk stn with sli shows of Dk Hvy DO & Brn FO on brk, some blk resid stn]

Ls wh-cr, some re-worked and re-cem frags and foss

Sh pinkish-red, some grn-gy, mushy-soft, scatt calc chalky mix

Sh red, pastey-mushy (washes deep red)

Sh red in pt (50%) & gy-grn in pt (50%), some plgy-pl grn shaley silt to silty shale

Ls wh-cr, fn xln, Abund dns, some chalky, moderate am't of patches and pcs with pr xln por & fr pp por with sm vugs, foss-abund foss-packed micro foss debris

[No Odor, Scatt dull-mod fluor, mod am't of pcs & patches with tan-brn stn, mix of sli-fr shows of: oily film-NVL dk brn oil-brn gassy FO on brk]

Sh gy-grn-red

Ls cr, fn xln, mostly dns, scatt patches & pcs with pr xln por and pp pores, foss

[No Odor, V Rr spotty fluor, Rr pcs with patches of spotty stn-with sli shows of oily film & tan FO on brk]

Sh gy-blk

Sh red-gy

Ls cr-tan-pl gy, fn xln, dns, foss-abund foss, Scatt red shale filled fractured and pores

[No Odor, V Rr spots of dull fluor, few pcs with patches of Lt brn spotty stn & trace show of Lt brn FO on brk]

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

Sh red-gy-grnsh gy, earthy text in pt, silty-subsilty in pt, subwaxy in pt

Ls wh-cr, fn xln, mostly dns to subchalky with scatt patches & pcs with pr xln por & pp pores, foss-abund foss, scatt calcite inclusions

[No Odor, Scatt dull-mod fluor, Moderate am't of pcs with patchy brn stn with sli shows of oily scum & brn FO on brk]

←----- 4438 (-1158)

Sh red-gy-dk gy, mushy-soft, (washes red)

Chl Hd pH Solids
1100 10 10.5 5.7

7:00 AM, November 19, 2013

DST #4: 4236-4293 (Lsg D)
Times: 30-60-60-90
Initial Open: Wk, built to 1" i.b.
Final Open: Wk, built to 1" i.b.
Rec: 122' mud/sso in tool
* Slid tool 10' to bottom!
IHP: 2094 FHP: 2082
IFP: 64-74 FFP: 83-84
ISIP: 1204 FSIP: 1192
BHT: 129°F

Mud Check, CTCH @ 4293':
Vis Wt WL LCM PV YP
53 9.3 6.0 6 17 17
Chl Hd pH Solids
1100 20 10.0 7.1

7:00 AM, November 20, 2013

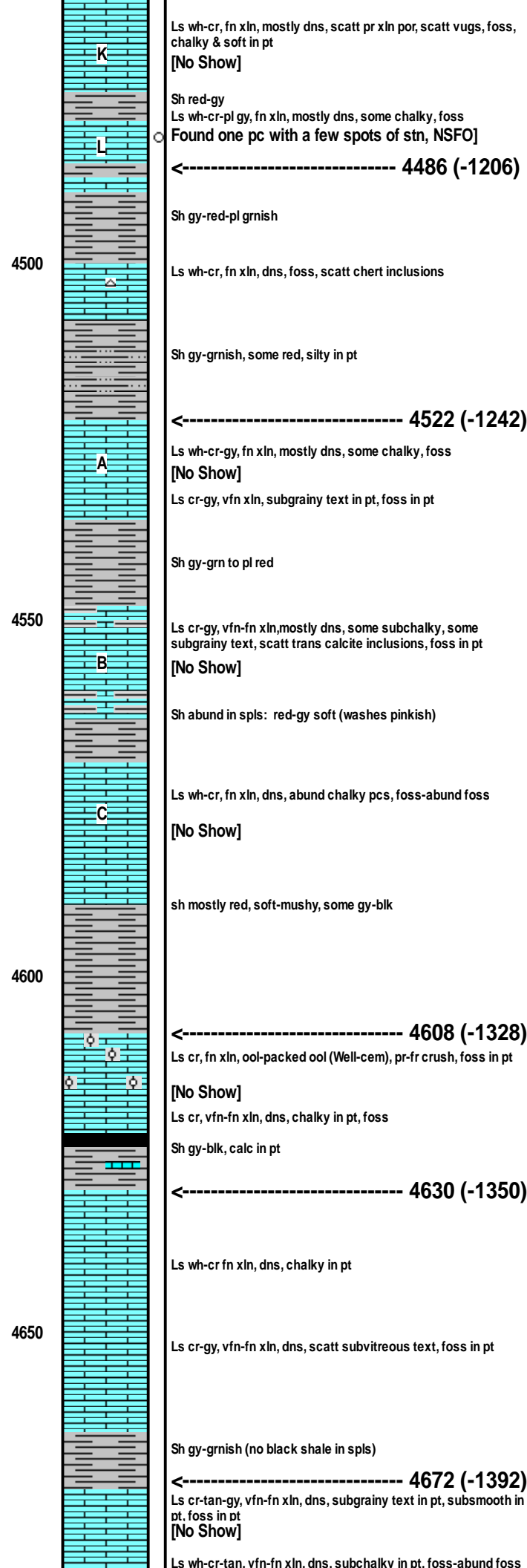
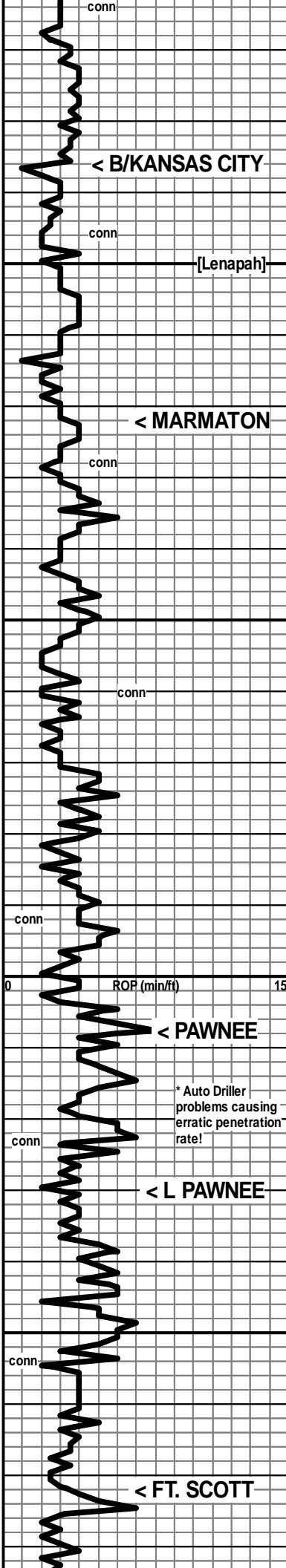
DST #5: 4287-4402 (LKC G,G',H,I)
Times: 30-60-60-90
Initial Open: Stg, b.o.b. 22 min
Final Open: Stg, b.o.b. 15 min
Rec: 226' Total Fluid
40' Oil
62' MCO: 60%o 40%
62' HMCO: 50%o 50%
62' OCM: 30%o 70%
(Gr Oil 34 API)
IHP: 2226 FHP: 2175
IFP: 36-75 FFP: 88-103
ISIP: 1059 FSIP: 968
BHT: 127°F

Mud Check, Drlg @ 4398':
Vis Wt WL LCM PV YP
67 9.2 6.4 6 21 21
Chl Hd pH Solids
1000 10 11.5 6.4

7:00 AM, November 21, 2013

DST #6: 4391-4440 (LKC J)
Times: 30-60-60-90
Initial Open: Wk, built to 2" i.b.
Final Open: Wk, Built to 3/4", then died in 40 min
Rec: 60' Oil Spotted Mud
IHP: 2262 FHP: 2233
IFP: 32-37 FFP: 43-49
ISIP: 930 FSIP: 1056
BHT: 129°F

Mud Check, Trip for DST @ 4440':
Vis Wt WL LCM PV YP
64 9.4 6.4 6 19 22
Chl Hd pH Solids
1000 10 11.5 7.8



7:00 AM, November 22, 2013

Mud Check, Drlg @ 4588':

Vis	Wt	WL	LCM	PV	YP
84	9.4	6.4	6	23	26
Chl	Hd	pH	Solids		
1000	10	11.5	7.8		

* Auto Driller problems causing erratic penetration rate!

conn
< CHEROKEE

[Verdigris]

4700

conn

conn

4750

conn

4800

< CFS- *** RTD 4800 Ft. ***
LTD 4810 Ft.

[No Show]

<----- 4688 (-1408)

Ls wh-cr, fn xln, dns-pr xln por, chalky & soft in pt, foss, Rr sli sdy pcs

Sh red-gy-grnsh

4720' spl: Sd & Sdy Ls & Limey Sd, wh-gy-cr-grnsh, cem in pt to well-cem with calc cement, gd sort, fn grn, subrd, fr-gd fri, scatt pyrite, glauc, and shale specks throughout

[No Show]

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

4740' spl: 60% Shales: red-gy-grn-lav-yell-tan, silty in pt, pyritic in pt, subearthy-subfiss

40% Ls: wh-cr, fn xln, dns, foss

4750' spl: 70% Ls wh-cr, fn xln, sdy in pt with fn grn sd, chalky matrix in pt, foss in pt

30% VC Shales

4760' spl: 70% Ls wh-cr-gy, fn xln, chalky in pt, foss, sdy in Rr pt

30% red-gy shales

4770' spl: 85% VC Shales; red-gy-dk gy-grn-yell-purple, sdy in pt

15% Ls wh-cr, fn xln, dns, sdy in pt

4780' spl: 90% VC Shales as above; 10% Ls and a few clusters of Sd, fn grn, subrd-subang, fr-gd sort, shaley in pt, calc cem in pt, "dirty" looking

[No Show]

Shales as above, moderate am't of crs loose quartz or chert frags with mix of sharp to subrd'd edges, transl, glassy

99% Shale, mostly red, mushy to soft, with gy-grn-yell, silty in pt, (washes red) few sd clusters per tray, fn-md-crs, subrd-subang

[No Show]

RTD 4800 Ft. @ 12:04 AM,
November 23, 2013



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc.**

250 N WaterSte 300
Wichita, KS 67202-1216

ATTN: Brad Rine

Burke Trust 'B' 1-14

14-1s-36w Rawlins,KS

Start Date: 2013.11.16 @ 07:55:38

End Date: 2013.11.16 @ 16:10:23

Job Ticket #: 54663 DST #: 1

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

Printed: 2013.11.25 @ 16:28:52



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co Inc.
250 N WaterSte 300
Wichita, KS 67202-1216
ATTN: Brad Rine

14-1s-36w Rawlins,KS
Burke Trust 'B' 1-14
Job Ticket: 54663 **DST#: 1**
Test Start: 2013.11.16 @ 07:55:38

GENERAL INFORMATION:

Formation: **Foraker**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 10:34:23
Time Test Ended: 16:10:23
Interval: **3757.00 ft (KB) To 3815.00 ft (KB) (TVD)**
Total Depth: 3815.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Initial)
Tester: Shanev McBride
Unit No: 55
Reference Elevations: 3280.00 ft (KB)
3275.00 ft (CF)
KB to GR/CF: 5.00 ft

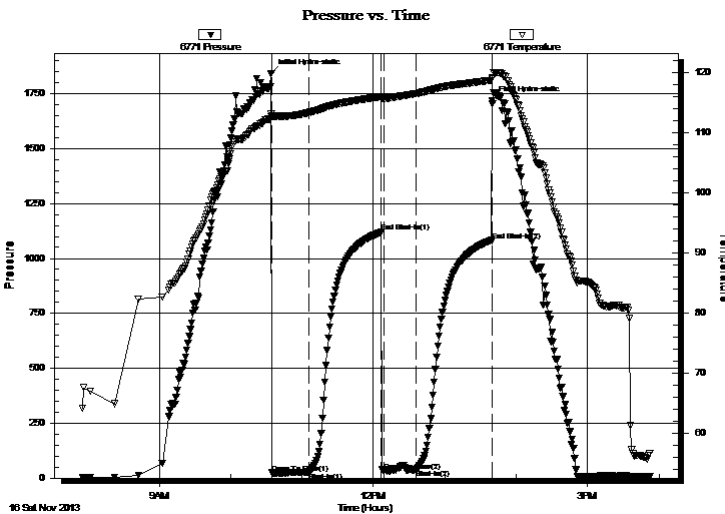
Serial #: 6771

Inside

Press@RunDepth: 38.29 psig @ 3758.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2013.11.16 End Date: 2013.11.16 Last Calib.: 2013.11.16
Start Time: 07:55:38 End Time: 15:52:23 Time On Btm: 2013.11.16 @ 10:34:08
Time Off Btm: 2013.11.16 @ 13:39:53

TEST COMMENT: 1/4" blow died in 24 min.
No return
No Blow
No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1842.48	113.08	Initial Hydro-static
1	23.70	112.65	Open To Flow (1)
32	27.89	113.35	Shut-In(1)
93	1119.42	116.03	End Shut-In(1)
95	32.48	115.64	Open To Flow (2)
122	38.29	116.52	Shut-In(2)
186	1080.01	118.73	End Shut-In(2)
186	1718.65	119.06	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	h m c o 50% m 50% o	0.02

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Murfin Drilling Co Inc.
 250 N WaterSte 300
 Wichita, KS 67202-1216
 ATTN: Brad Rine

14-1s-36w Rawlins,KS
Burke Trust 'B' 1-14
 Job Ticket: 54663 **DST#: 1**
 Test Start: 2013.11.16 @ 07:55:38

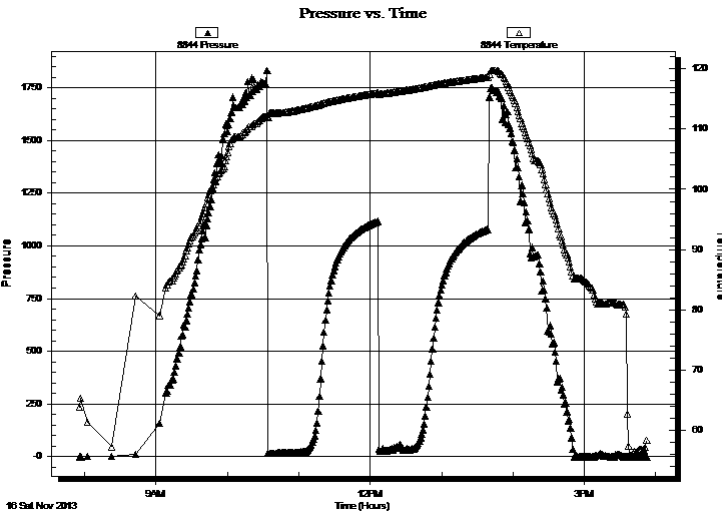
GENERAL INFORMATION:

Formation: Foraker		Test Type: Conventional Bottom Hole (Initial)
Deviated: No Whipstock: ft (KB)		Tester: Shanev McBride
Time Tool Opened: 10:34:23		Unit No: 55
Time Test Ended: 16:10:23		Reference Elevations: 3280.00 ft (KB)
Interval: 3757.00 ft (KB) To 3815.00 ft (KB) (TVD)		3275.00 ft (CF)
Total Depth: 3815.00 ft (KB) (TVD)		KB to GR/CF: 5.00 ft
Hole Diameter: 7.88 inches	Hole Condition: Fair	

Serial #: 8844 Outside

Press@RunDepth: psig @ 3758.00 ft (KB)	Capacity: 8000.00 psig	
Start Date: 2013.11.16	End Date: 2013.11.16	Last Calib.: 2013.11.16
Start Time: 07:55:52	End Time: 15:52:37	Time On Btm:
		Time Off Btm:

TEST COMMENT: 1/4" blow died in 24 min.
 No return
 No Blow
 No return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
5.00	h m c o 50% m 50%	0.02

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co Inc.

14-1s-36w Rawlins,KS

250 N WaterSte 300
Wichita, KS 67202-1216

Burke Trust 'B' 1-14

Job Ticket: 54663

DST#: 1

ATTN: Brad Rine

Test Start: 2013.11.16 @ 07:55:38

Tool Information

Drill Pipe:	Length: 3552.00 ft	Diameter: 3.80 inches	Volume: 49.83 bbl	Tool Weight: 1500.00 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: 66000.00 lb
			<u>Total Volume: 50.74 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3757.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	58.00 ft			
Tool Length:	86.00 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			3730.00	
Shut In Tool	5.00			3735.00	
Hydraulic tool	5.00			3740.00	
Jars	5.00			3745.00	
Safety Joint	3.00			3748.00	
Packer	5.00			3753.00	28.00 Bottom Of Top Packer
Packer	4.00			3757.00	
Stubb	1.00			3758.00	
Recorder	0.00	6771	Inside	3758.00	
Recorder	0.00	8844	Outside	3758.00	
Perforations	18.00			3776.00	
Change Over Sub	1.00			3777.00	
Drill Pipe	32.00			3809.00	
Change Over Sub	1.00			3810.00	
Bullnose	5.00			3815.00	58.00 Bottom Packers & Anchor

Total Tool Length: 86.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc.

14-1s-36w Rawlins,KS

250 N WaterSte 300
Wichita, KS 67202-1216

Burke Trust 'B' 1-14

Job Ticket: 54663

DST#: 1

ATTN: Brad Rine

Test Start: 2013.11.16 @ 07:55:38

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.96 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 900.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	h m c o 50% m 50% o	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

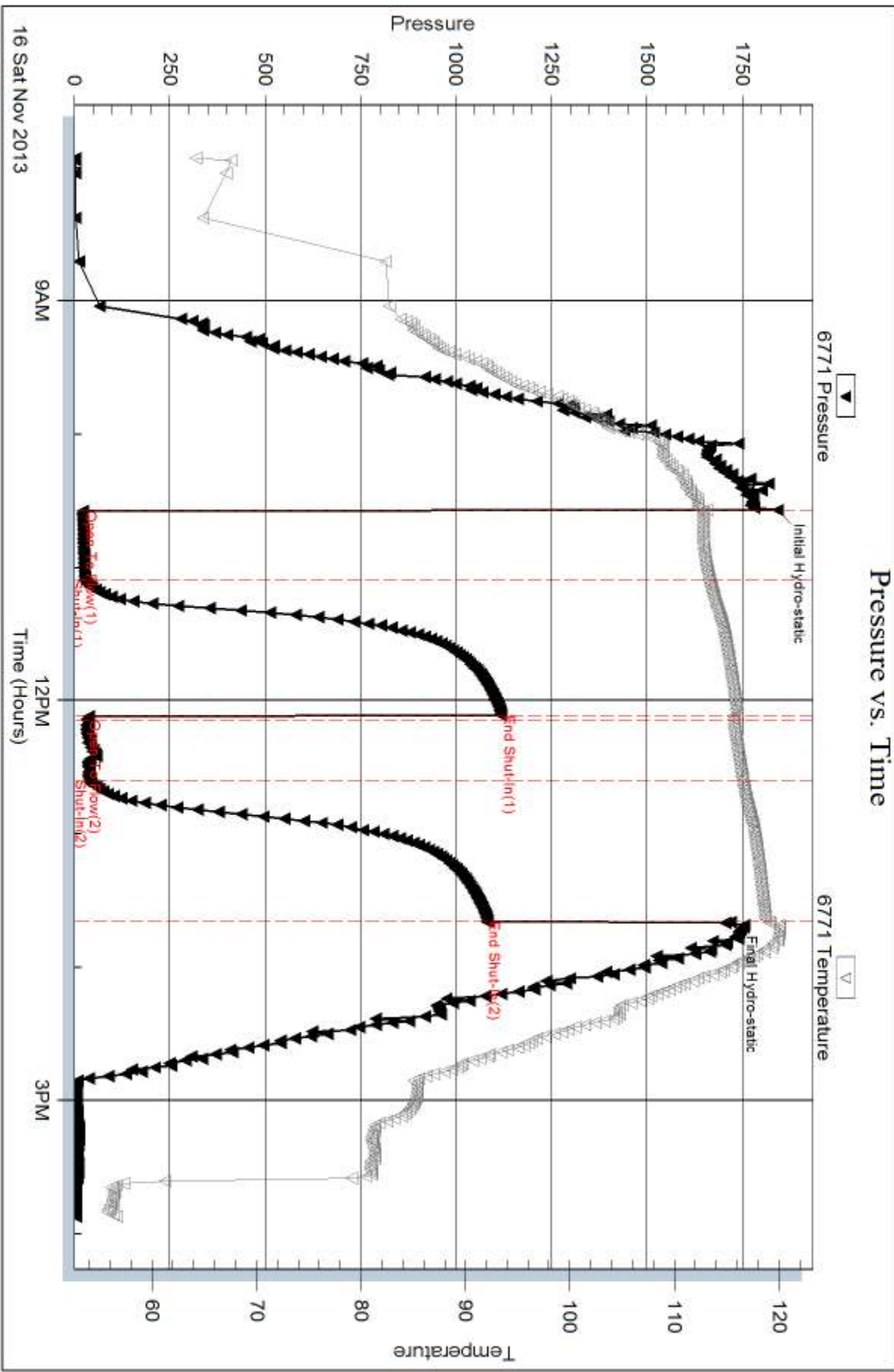
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

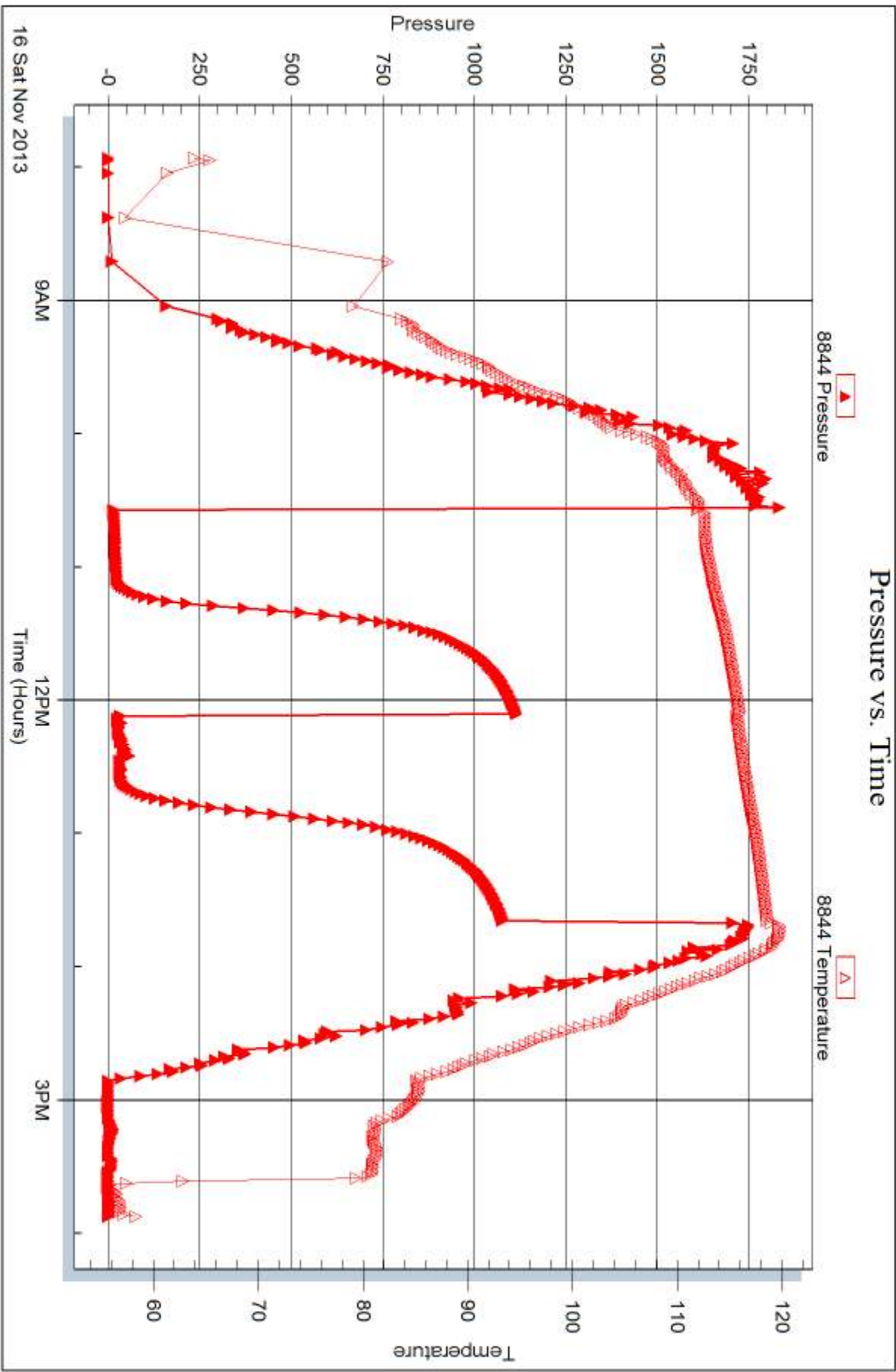


Serial #: 8844

Outside Murfin Drilling Co Inc.

Burke Trust B' 1-14

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc.**

250 N WaterSte 300
Wichita, KS 67202-1216

ATTN: Brad Rine

Burke Trust 'B' 1-14

14-1s-36w Rawlins,KS

Start Date: 2013.11.17 @ 15:04:00

End Date: 2013.11.18 @ 01:05:00

Job Ticket #: 55198 DST #: 2

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

Printed: 2013.11.25 @ 16:27:25



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co Inc.
 250 N WaterSte 300
 Wichita, KS 67202-1216
 ATTN: Brad Rine

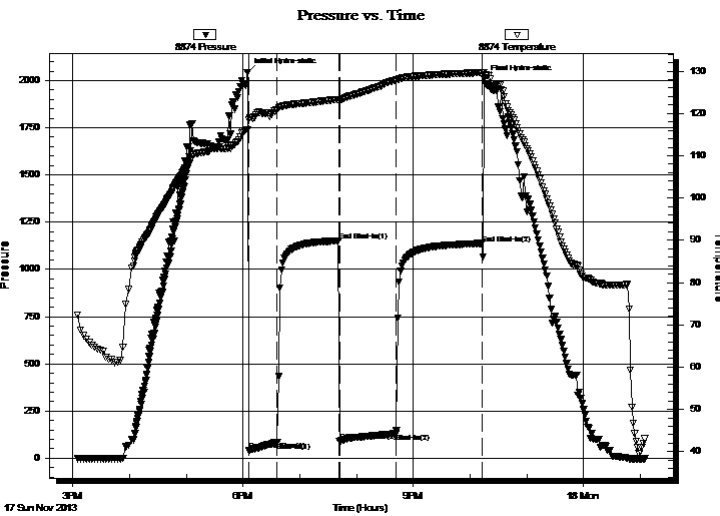
14-1s-36w Rawlins,KS
Burke Trust 'B' 1-14
 Job Ticket: 55198 **DST#: 2**
 Test Start: 2013.11.17 @ 15:04:00

GENERAL INFORMATION:

Formation: **Oread**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 18:06:00
 Time Test Ended: 01:05:00
 Interval: **4078.00 ft (KB) To 4127.00 ft (KB) (TVD)**
 Total Depth: 4127.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Kevin Mack
 Unit No: 66
 Reference Elevations: 3280.00 ft (KB)
 3275.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8874 Inside
 Press@RunDepth: 130.04 psig @ 4079.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.11.17 End Date: 2013.11.18 Last Calib.: 2013.11.18
 Start Time: 15:05:00 End Time: 01:05:00 Time On Btm: 2013.11.17 @ 18:04:30
 Time Off Btm: 2013.11.17 @ 22:15:00

TEST COMMENT: 30 - IF- Bled off initial surge - Surface Blow built to 3"
 60 - IS- No Return
 60 - FF- Surface Blow started at 5 min. Built to 5 1/4"
 60 - FS- No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2043.06	116.18	Initial Hydro-static
2	40.89	118.51	Open To Flow (1)
32	86.01	120.96	Shut-In(1)
97	1151.19	123.34	End Shut-In(1)
98	91.02	123.06	Open To Flow (2)
157	130.04	127.87	Shut-In(2)
248	1137.57	129.70	End Shut-In(2)
251	2007.79	129.59	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	OSMW 40M 60W (oil spots)	0.30
60.00	OSWM 50M 50W (oil spots)	0.30
60.00	OSMW 70M 30W (oil spots)	0.30
60.00	OSMW 90M 10W (oil spots)	0.79

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co Inc.
250 N WaterSte 300
Wichita, KS 67202-1216
ATTN: Brad Rine

14-1s-36w Rawlins,KS

Burke Trust 'B' 1-14

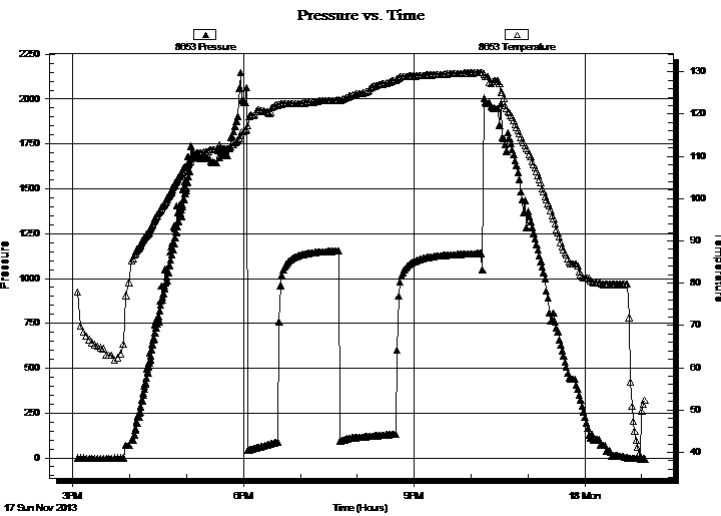
Job Ticket: 55198 **DST#: 2**
Test Start: 2013.11.17 @ 15:04:00

GENERAL INFORMATION:

Formation: Oread			
Deviated: No Whipstock:	ft (KB)	Test Type: Conventional Bottom Hole (Initial)	
Time Tool Opened: 18:06:00		Tester: Kevin Mack	
Time Test Ended: 01:05:00		Unit No: 66	
Interval: 4078.00 ft (KB) To 4127.00 ft (KB) (TVD)		Reference Elevations: 3280.00 ft (KB)	
Total Depth: 4127.00 ft (KB) (TVD)		3275.00 ft (CF)	
Hole Diameter: 7.88 inches	Hole Condition: Good	KB to GR/CF: 5.00 ft	

Serial #: 8653	Outside			
Press@RunDepth: psig @	4079.00 ft (KB)	Capacity:	8000.00 psig	
Start Date: 2013.11.17	End Date: 2013.11.18	Last Calib.:	2013.11.18	
Start Time: 15:05:00	End Time: 01:03:00	Time On Btm:		
		Time Off Btm:		

TEST COMMENT: 30 - IF- Bled off initial surge - Surface Blow built to 3"
60 - IS- No Return
60 - FF- Surface Blow started at 5 min. Built to 5 1/4"
60 - FS- No Return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
60.00	OSMW 40M 60W (oil spots)	0.30
60.00	OSWM 50M 50W (oil spots)	0.30
60.00	OSMW 70M 30W (oil spots)	0.30
60.00	OSMW 90M 10W (oil spots)	0.79

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co Inc.

14-1s-36w Rawlins,KS

250 N WaterSte 300
Wichita, KS 67202-1216

Burke Trust 'B' 1-14

Job Ticket: 55198

DST#: 2

ATTN: Brad Rine

Test Start: 2013.11.17 @ 15:04:00

Tool Information

Drill Pipe:	Length: 3874.00 ft	Diameter: 3.80 inches	Volume: 54.34 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: 55000.00 lb
			<u>Total Volume: 55.25 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	4078.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	49.00 ft			
Tool Length:	77.00 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			4051.00	
Shut In Tool	5.00			4056.00	
Hydraulic tool	5.00			4061.00	
Jars	5.00			4066.00	
Safety Joint	3.00			4069.00	
Packer	5.00			4074.00	28.00 Bottom Of Top Packer
Packer	4.00			4078.00	
Stubb	1.00			4079.00	
Recorder	0.00	8653	Outside	4079.00	
Recorder	0.00	8874	Inside	4079.00	
Perforations	10.00			4089.00	
Change Over Sub	1.00			4090.00	
Drill Pipe	31.00			4121.00	
Change Over Sub	1.00			4122.00	
Bullnose	5.00			4127.00	49.00 Bottom Packers & Anchor

Total Tool Length: 77.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc.

14-1s-36w Rawlins,KS

250 N WaterSte 300
Wichita, KS 67202-1216

Burke Trust 'B' 1-14

Job Ticket: 55198

DST#: 2

ATTN: Brad Rine

Test Start: 2013.11.17 @ 15:04:00

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: 62.00 sec/qt

Cushion Volume:

bbf

Water Loss: 5.58 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1100.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
60.00	OSMW 40M 60W (oil spots)	0.295
60.00	OSWM 50M 50W (oil spots)	0.295
60.00	OSMW 70M 30W (oil spots)	0.295
60.00	OSMW 90M 10W (oil spots)	0.787

Total Length: 240.00 ft

Total Volume: 1.672 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

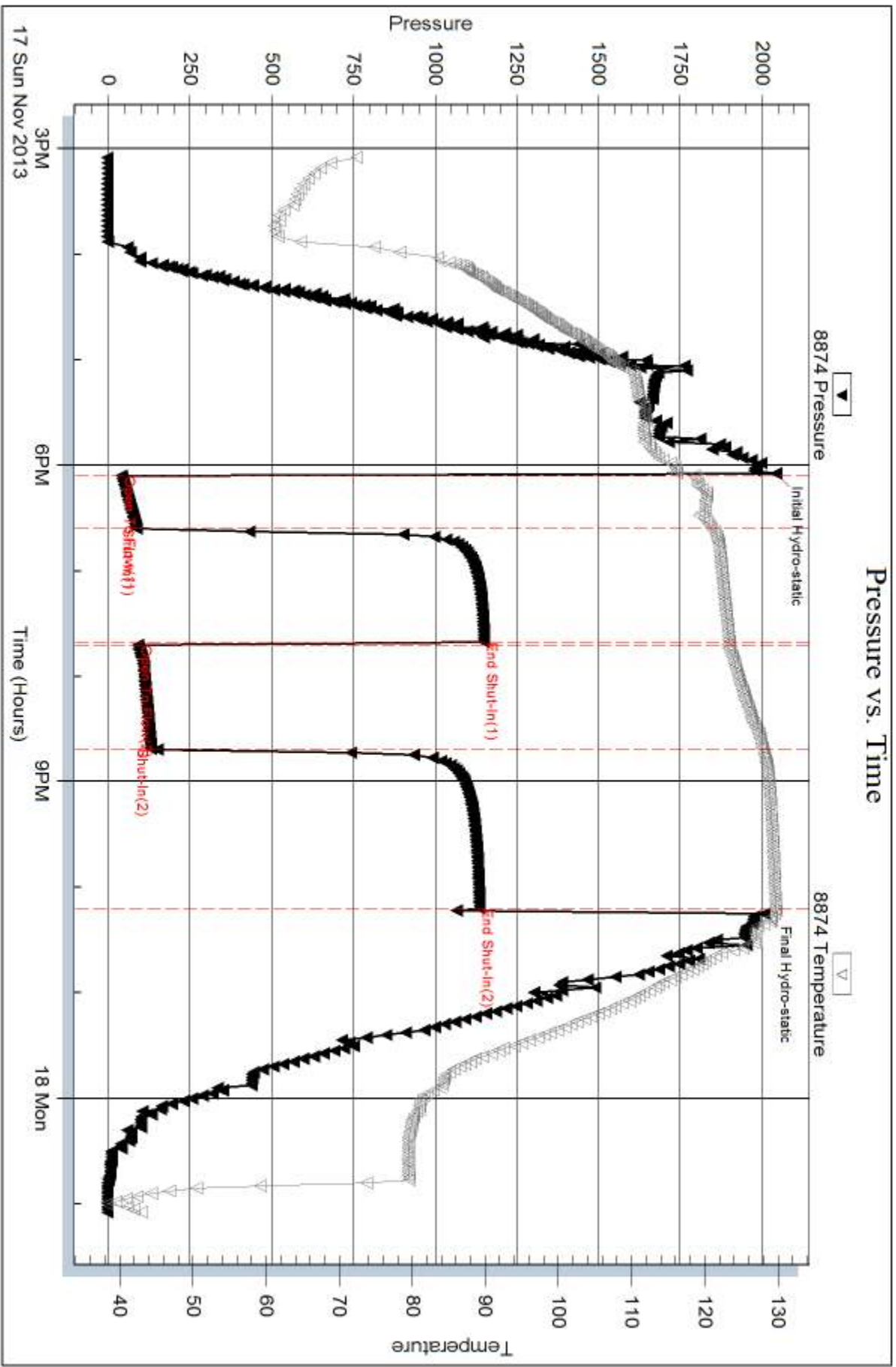
Serial #: 8874

Inside

Murfin Drilling Co Inc.

Burke Trust B' 1-14

DST Test Number: 2

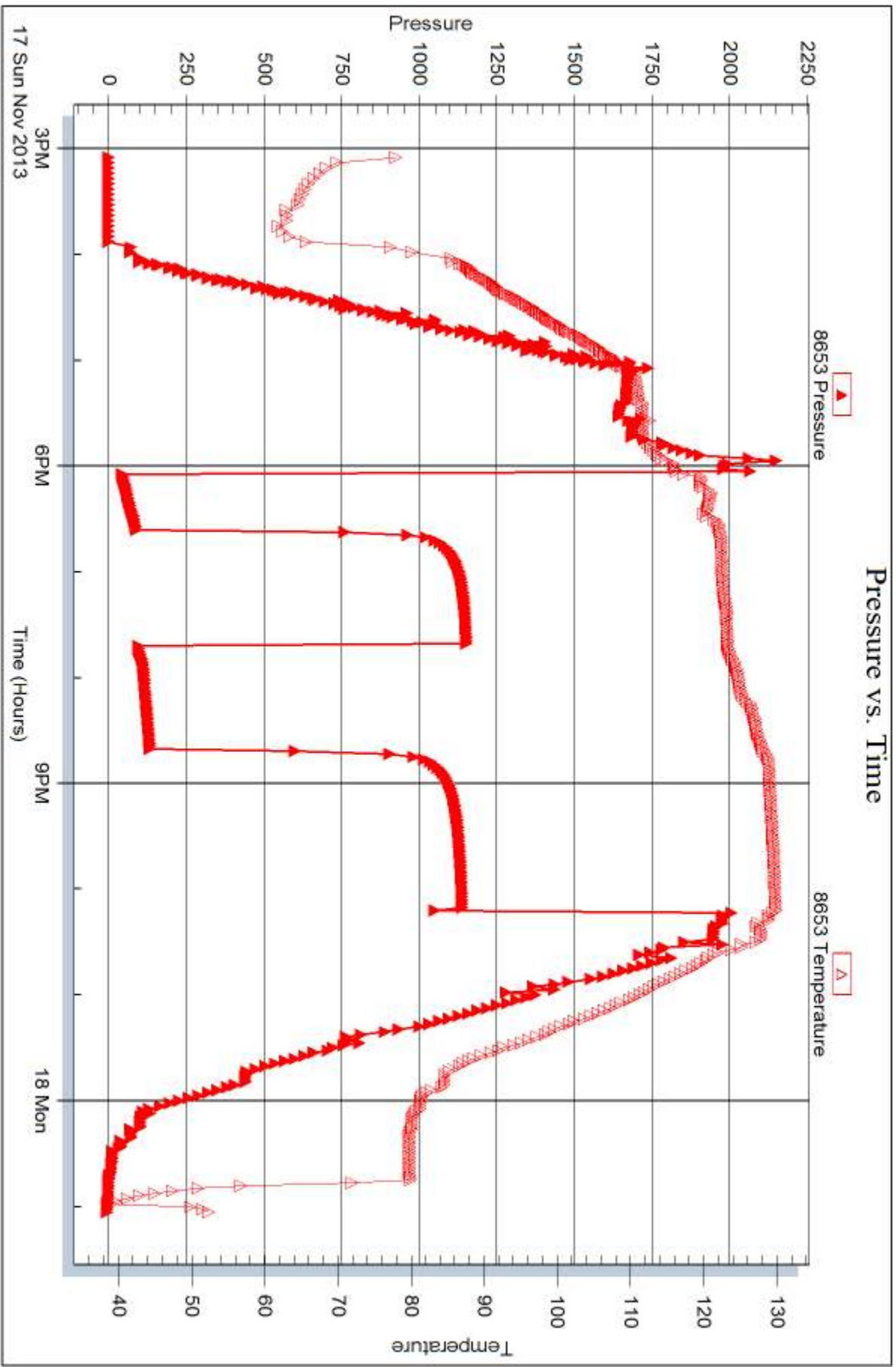


Serial #: 8653

Outside Murfin Drilling Co Inc.

Burke Trust B' 1-14

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 55198

Printed: 2013.11.25 @ 16:27:28



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc.**

250 N WaterSte 300
Wichita, KS 67202-1216

ATTN: Brad Rine

Burke Trust 'B' 1-14

14-1s-36w Rawlins,KS

Start Date: 2013.11.18 @ 17:38:00

End Date: 2013.11.19 @ 06:37:00

Job Ticket #: 55199 DST #: 3

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

Printed: 2013.11.25 @ 16:25:31

Murfin Drilling Co Inc. 14-1s-36w Rawlins,KS Burke Trust 'B' 1-14 DST # 3 LKC "A" 2013.11.18



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co Inc.
250 N WaterSte 300
Wichita, KS 67202-1216
ATTN: Brad Rine

14-1s-36w Rawlins,KS
Burke Trust 'B' 1-14
Job Ticket: 55199 **DST#: 3**
Test Start: 2013.11.18 @ 17:38:00

GENERAL INFORMATION:

Formation: **LKC "A"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 20:44:30
Time Test Ended: 06:37:00
Interval: **4158.00 ft (KB) To 4250.00 ft (KB) (TVD)**
Total Depth: 4250.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Initial)
Tester: Kevin Mack
Unit No: 66
Reference Elevations: 3280.00 ft (KB)
3275.00 ft (CF)
KB to GR/CF: 5.00 ft

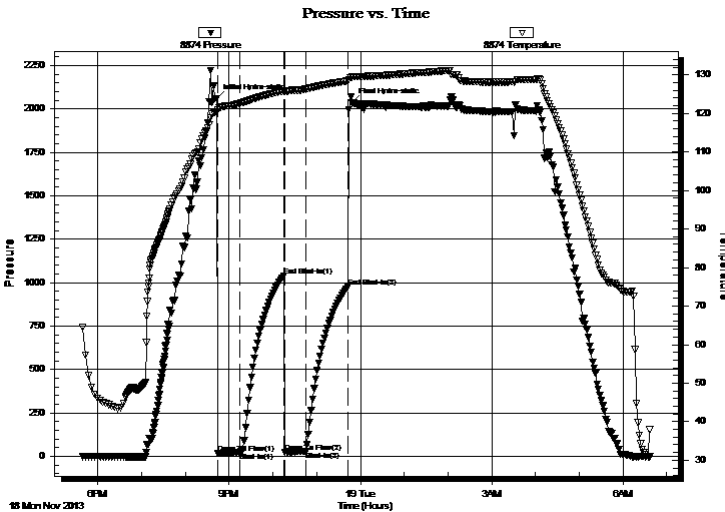
Serial #: 8874

Inside

Press@RunDepth: 25.57 psig @ 4159.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2013.11.18 End Date: 2013.11.19 Last Calib.: 2013.11.19
Start Time: 17:39:00 End Time: 06:37:00 Time On Btm: 2013.11.18 @ 20:42:30
Time Off Btm: 2013.11.18 @ 23:48:00

TEST COMMENT: 30 - IF- 1/2" Blow built to 1 1/4"
60 - IS- No Return
30 - FF- No Blow
60 - FS- No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2058.23	120.18	Initial Hydro-static
2	17.21	120.78	Open To Flow (1)
32	22.01	122.58	Shut-In(1)
92	1038.37	125.79	End Shut-In(1)
94	24.44	125.59	Open To Flow (2)
122	25.57	126.25	Shut-In(2)
180	975.36	128.39	End Shut-In(2)
186	2036.53	129.39	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud 100M	0.05

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co Inc.
 250 N WaterSte 300
 Wichita, KS 67202-1216
 ATTN: Brad Rine

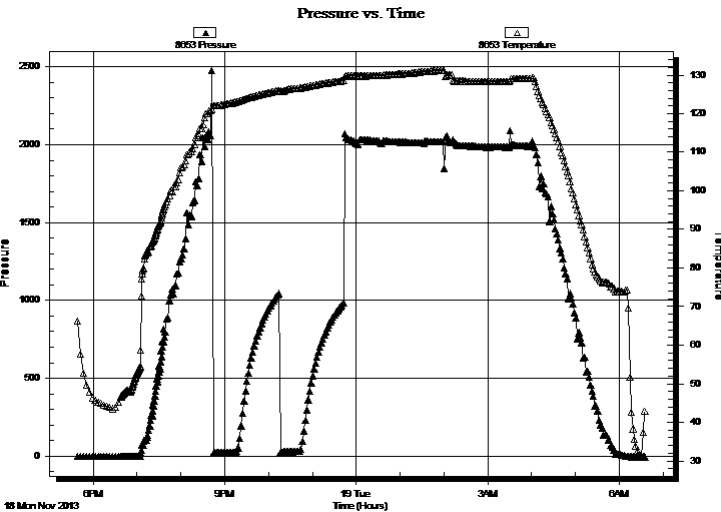
14-1s-36w Rawlins,KS
Burke Trust 'B' 1-14
 Job Ticket: 55199 **DST#: 3**
 Test Start: 2013.11.18 @ 17:38:00

GENERAL INFORMATION:

Formation: **LKC "A"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 20:44:30
 Time Test Ended: 06:37:00
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Kevin Mack
 Unit No: 66
Interval: 4158.00 ft (KB) To 4250.00 ft (KB) (TVD)
 Total Depth: 4250.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Reference Elevations: 3280.00 ft (KB)
 3275.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8653 Outside
 Press@RunDepth: psig @ 4159.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.11.18 End Date: 2013.11.19 Last Calib.: 2013.11.19
 Start Time: 17:39:00 End Time: 06:34:30 Time On Btm:
 Time Off Btm:

TEST COMMENT: 30 - IF- 1/2" Blow built to 1 1/4"
 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)
10.00	Mud 100M	0.05

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co Inc.

14-1s-36w Rawlins,KS

250 N WaterSte 300
Wichita, KS 67202-1216

Burke Trust 'B' 1-14

Job Ticket: 55199

DST#: 3

ATTN: Brad Rine

Test Start: 2013.11.18 @ 17:38:00

Tool Information

Drill Pipe:	Length: 3964.00 ft	Diameter: 3.80 inches	Volume: 55.60 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: 55000.00 lb
			<u>Total Volume: 56.51 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	4158.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	92.00 ft			
Tool Length:	120.00 ft			
Number of Packers:	1	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4131.00	
Shut In Tool	5.00			4136.00	
Hydraulic tool	5.00			4141.00	
Jars	5.00			4146.00	
Safety Joint	3.00			4149.00	
Packer	5.00			4154.00	28.00 Bottom Of Top Packer
Packer	4.00			4158.00	
Stubb	1.00			4159.00	
Recorder	0.00	8653	Outside	4159.00	
Recorder	0.00	8874	Inside	4159.00	
Perforations	21.00			4180.00	
Change Over Sub	1.00			4181.00	
Drill Pipe	63.00			4244.00	
Change Over Sub	1.00			4245.00	
Bullnose	5.00			4250.00	92.00 Bottom Packers & Anchor

Total Tool Length: 120.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc.

14-1s-36w Rawlins,KS

250 N WaterSte 300
Wichita, KS 67202-1216

Burke Trust 'B' 1-14

Job Ticket: 55199

DST#: 3

ATTN: Brad Rine

Test Start: 2013.11.18 @ 17:38:00

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: 60.00 sec/qt

Cushion Volume:

bbf

Water Loss: 5.59 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1100.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
10.00	Mud 100M	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

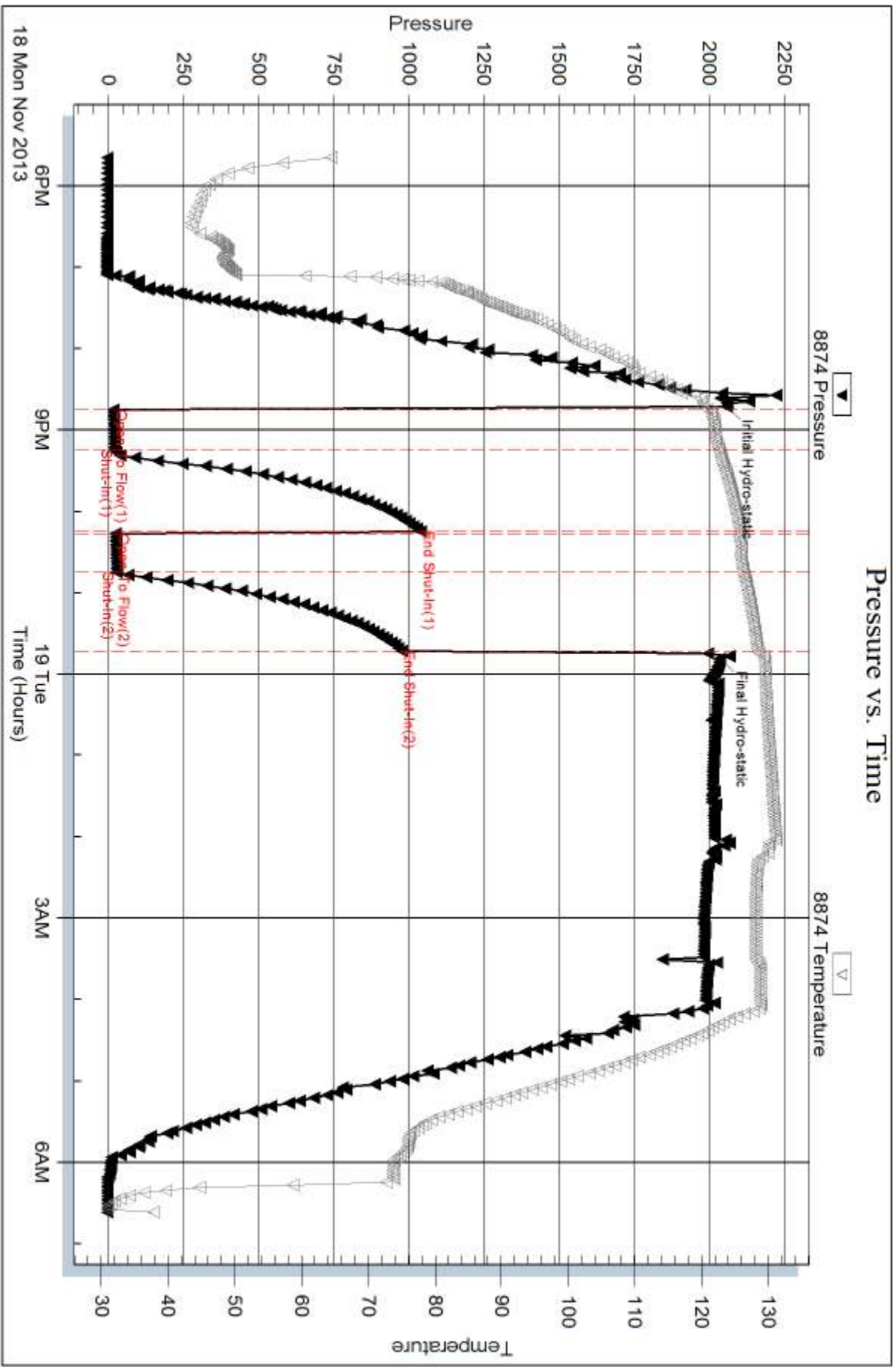
Serial #: 8874

Inside

Murfin Drilling Co Inc.

Burke Trust 'B' 1-14

DST Test Number: 3

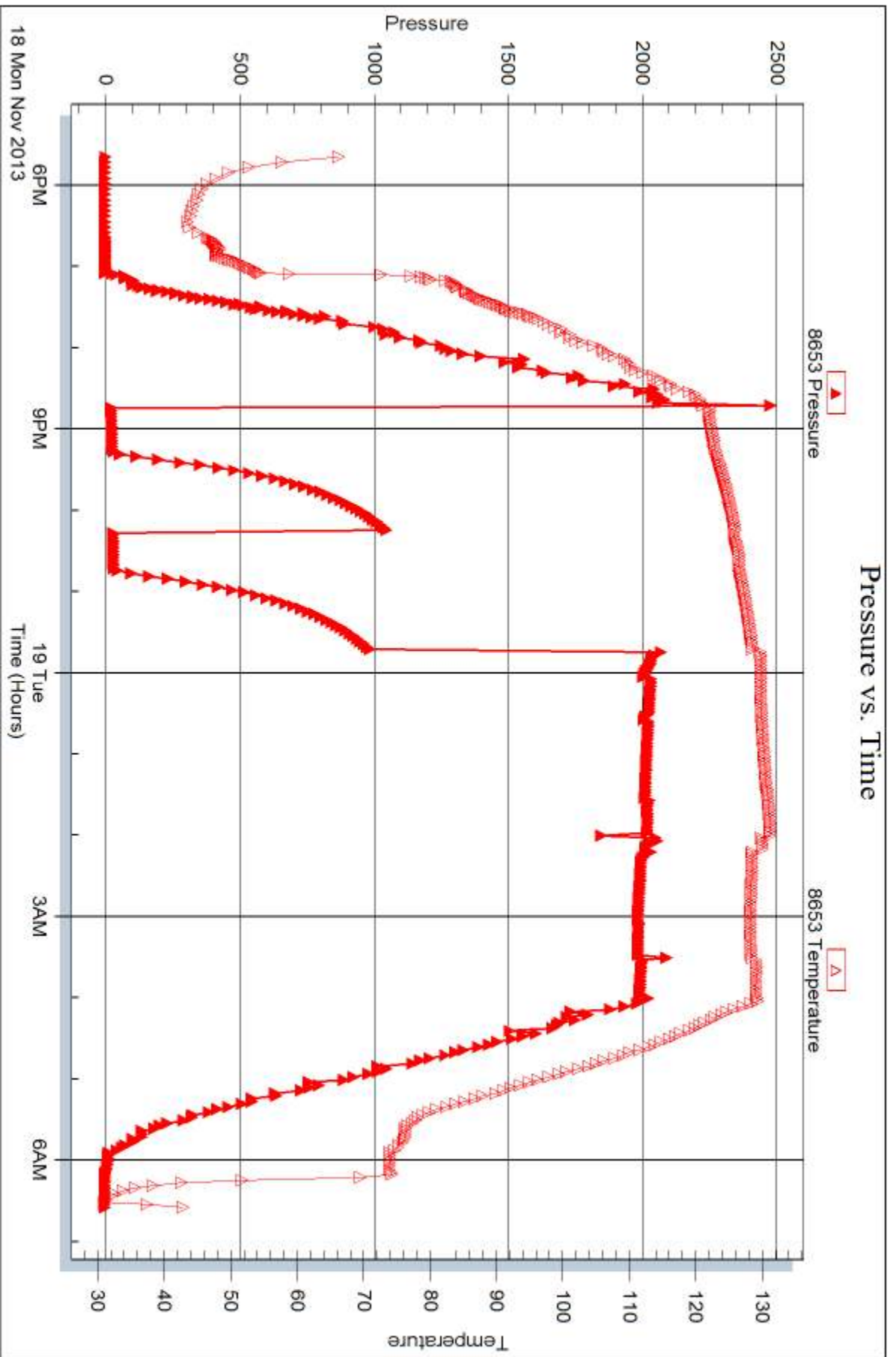


Serial #: 8653

Outside Murfin Drilling Co Inc.

Burke Trust B' 1-14

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 55199

Printed: 2013.11.25 @ 16:25:35



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc.**

250 N WaterSte 300
Wichita, KS 67202-1216

ATTN: Brad Rine

Burke Trust 'B' 1-14

14-1s-36w Rawlins,KS

Start Date: 2013.11.19 @ 15:10:00

End Date: 2013.11.20 @ 01:09:30

Job Ticket #: 55200 DST #: 4

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

Printed: 2013.11.25 @ 16:24:07



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co Inc.
250 N WaterSte 300
Wichita, KS 67202-1216
ATTN: Brad Rine

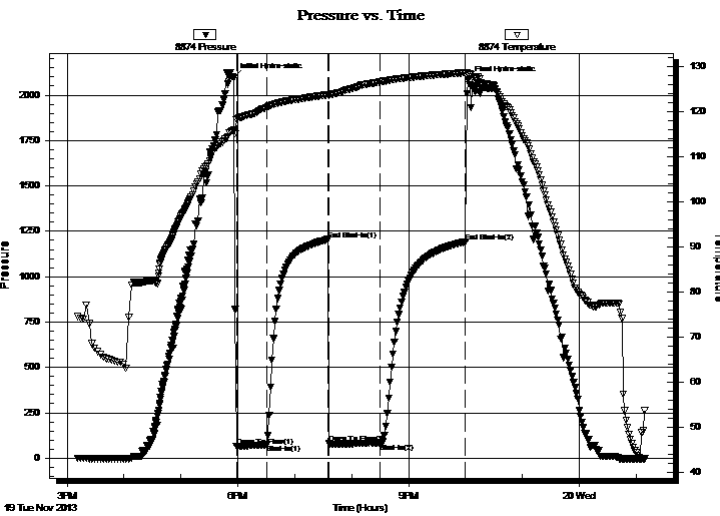
14-1s-36w Rawlins,KS
Burke Trust 'B' 1-14
Job Ticket: 55200 **DST#: 4**
Test Start: 2013.11.19 @ 15:10:00

GENERAL INFORMATION:

Formation: **LKC "D"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 17:58:30
Time Test Ended: 01:09:30
Test Type: Conventional Bottom Hole (Initial)
Tester: Kevin Mack
Unit No: 66
Interval: **4236.00 ft (KB) To 4293.00 ft (KB) (TVD)**
Reference Elevations: 3280.00 ft (KB)
Total Depth: 4293.00 ft (KB) (TVD) 3275.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 5.00 ft

Serial #: 8874 Inside
Press@RunDepth: 84.04 psig @ 4237.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2013.11.19 End Date: 2013.11.20 Last Calib.: 2013.11.20
Start Time: 15:11:00 End Time: 01:09:30 Time On Btm: 2013.11.19 @ 17:55:30
Time Off Btm: 2013.11.19 @ 22:03:00

TEST COMMENT: 30 - IF- Bled off initial surge - Surface Blow built to 1"
60 - IS- No Return
60 - FF- Surface Blow started at 10 min. Built to 1"
90 - FS- No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2094.09	115.88	Initial Hydro-static
3	64.06	118.23	Open To Flow (1)
35	74.10	120.75	Shut-In(1)
99	1204.86	123.64	End Shut-In(1)
101	83.66	123.56	Open To Flow (2)
155	84.04	126.50	Shut-In(2)
245	1192.15	128.56	End Shut-In(2)
248	2082.14	128.29	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	Show of oil spots in tool	0.00
122.00	Mud 100M	0.60

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co Inc.
250 N WaterSte 300
Wichita, KS 67202-1216
ATTN: Brad Rine

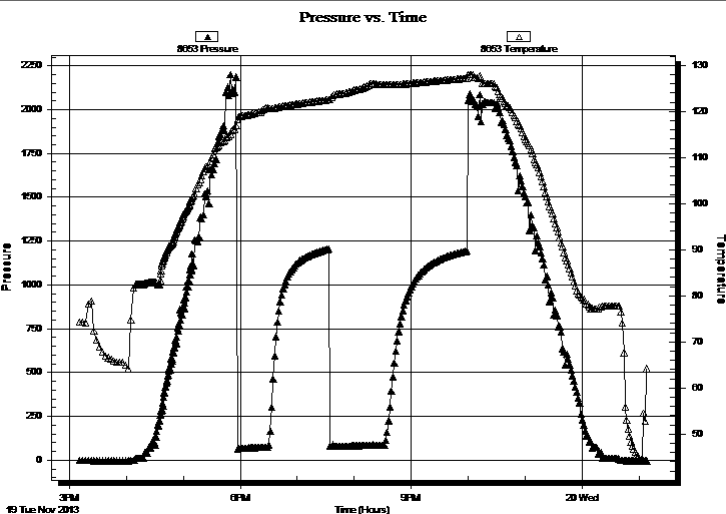
14-1s-36w Rawlins,KS
Burke Trust 'B' 1-14
Job Ticket: 55200 **DST#: 4**
Test Start: 2013.11.19 @ 15:10:00

GENERAL INFORMATION:

Formation: **LKC "D"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 17:58:30
Time Test Ended: 01:09:30
Test Type: Conventional Bottom Hole (Initial)
Tester: Kevin Mack
Unit No: 66
Interval: **4236.00 ft (KB) To 4293.00 ft (KB) (TVD)**
Reference Elevations: 3280.00 ft (KB)
Total Depth: 4293.00 ft (KB) (TVD) 3275.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 5.00 ft

Serial #: 8653 **Outside**
Press@RunDepth: psig @ 4237.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2013.11.19 End Date: 2013.11.20 Last Calib.: 2013.11.20
Start Time: 15:11:00 End Time: 01:07:30 Time On Btm:
Time Off Btm:

TEST COMMENT: 30 - IF- Bled off initial surge - Surface Blow built to 1"
60 - IS- No Return
60 - FF- Surface Blow started at 10 min. Built to 1"
90 - FS- No Return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
0.00	Show of oil spots in tool	0.00
122.00	Mud 100M	0.60

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co Inc.
250 N WaterSte 300
Wichita, KS 67202-1216
ATTN: Brad Rine

14-1s-36w Rawlins,KS
Burke Trust 'B' 1-14
Job Ticket: 55200 **DST#: 4**
Test Start: 2013.11.19 @ 15:10:00

Tool Information

Drill Pipe:	Length: 4030.00 ft	Diameter: 3.80 inches	Volume: 56.53 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:	55000.00 lb
			<u>Total Volume: 57.44 bbl</u>	Tool Chased	10.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial	50000.00 lb
Depth to Top Packer:	4236.00 ft			Final	52000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	57.00 ft				
Tool Length:	85.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments: chased tool approx 10' to bottom.

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4209.00	
Shut In Tool	5.00			4214.00	
Hydraulic tool	5.00			4219.00	
Jars	5.00			4224.00	
Safety Joint	3.00			4227.00	
Packer	5.00			4232.00	28.00 Bottom Of Top Packer
Packer	4.00			4236.00	
Stubb	1.00			4237.00	
Recorder	0.00	8653	Outside	4237.00	
Recorder	0.00	8874	Inside	4237.00	
Perforations	17.00			4254.00	
Change Over Sub	1.00			4255.00	
Drill Pipe	32.00			4287.00	
Change Over Sub	1.00			4288.00	
Bullnose	5.00			4293.00	57.00 Bottom Packers & Anchor

Total Tool Length: 85.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc.

14-1s-36w Rawlins,KS

250 N WaterSte 300
Wichita, KS 67202-1216

Burke Trust 'B' 1-14

Job Ticket: 55200

DST#: 4

ATTN: Brad Rine

Test Start: 2013.11.19 @ 15:10:00

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: 53.00 sec/qt

Cushion Volume: bbl

Water Loss: 5.99 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure: psig

Salinity: 1100.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	Show of oil spots in tool	0.000
122.00	Mud 100M	0.600

Total Length: 122.00 ft Total Volume: 0.600 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

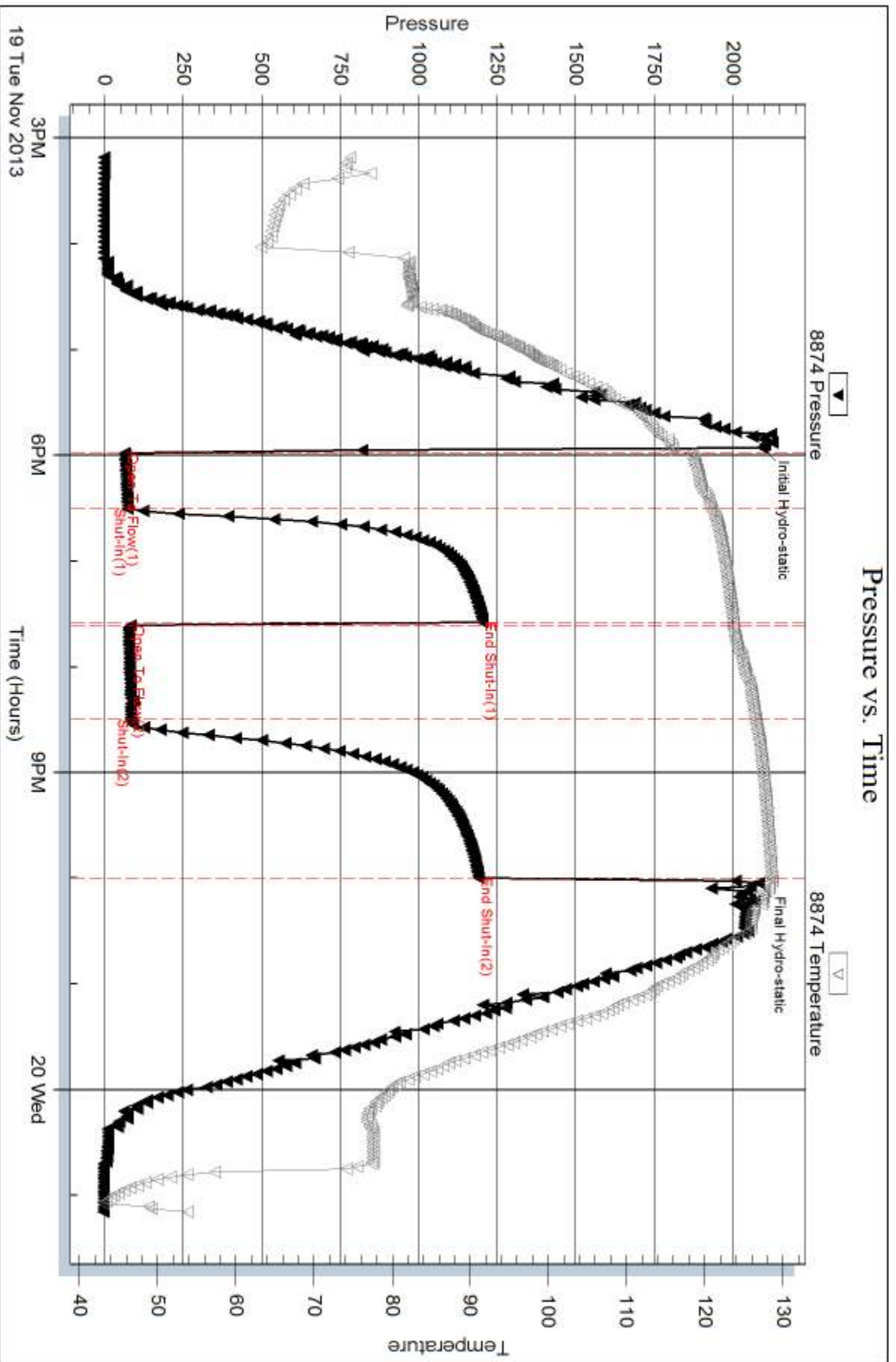
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

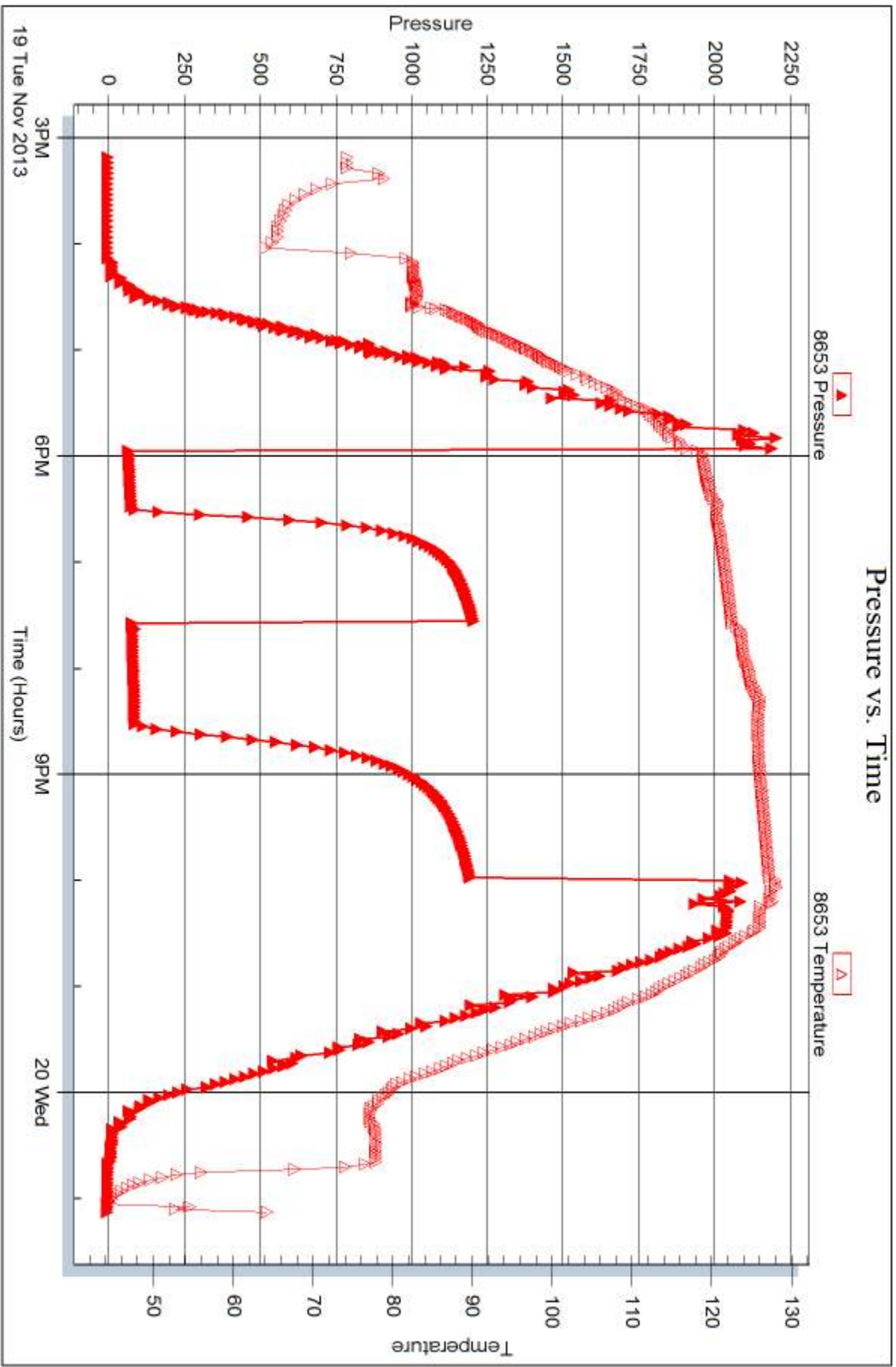


Serial #: 8653

Outside Murfin Drilling Co Inc.

Burke Trust B' 1-14

DST Test Number: 4





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc.**

250 N WaterSte 300
Wichita, KS 67202-1216

ATTN: Brad Rine

Burke Trust 'B' 1-14

14-1s-36w Rawlins,KS

Start Date: 2013.11.20 @ 16:00:00

End Date: 2013.11.21 @ 01:55:00

Job Ticket #: 53552 DST #: 5

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

Printed: 2013.11.25 @ 16:23:26



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co Inc.
250 N WaterSte 300
Wichita, KS 67202-1216
ATTN: Brad Rine

14-1s-36w Rawlins,KS
Burke Trust 'B' 1-14
Job Ticket: 53552 **DST#: 5**
Test Start: 2013.11.20 @ 16:00:00

GENERAL INFORMATION:

Formation: **LKC "G,H,I"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 18:43:30
Time Test Ended: 01:55:00
Interval: **4287.00 ft (KB) To 4402.00 ft (KB) (TVD)**
Total Depth: 4402.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Initial)
Tester: Kevin Mack
Unit No: 66
Reference Elevations: 3280.00 ft (KB)
3275.00 ft (CF)
KB to GR/CF: 5.00 ft

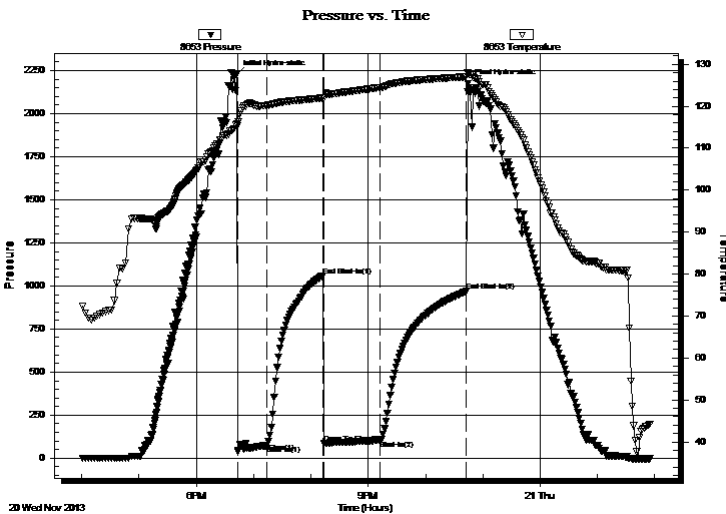
Serial #: 8653

Outside

Press@RunDepth: 103.65 psig @ 4288.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2013.11.20 End Date: 2013.11.21 Last Calib.: 2013.11.21
Start Time: 16:01:00 End Time: 01:55:00 Time On Btm: 2013.11.20 @ 18:42:30
Time Off Btm: 2013.11.20 @ 22:44:30

TEST COMMENT: 30 - IF- BoB in 22 min
60 - IS- No Return
60 - FF- BoB in 15 min.
90 - FS- No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2226.86	115.91	Initial Hydro-static
1	36.66	115.30	Open To Flow (1)
32	75.47	120.23	Shut-In(1)
90	1059.37	122.00	End Shut-In(1)
92	88.01	122.07	Open To Flow (2)
150	103.65	124.48	Shut-In(2)
240	968.07	127.05	End Shut-In(2)
242	2175.89	127.76	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	OCM 70M 30o	0.30
62.00	MCO 50M 50o	0.30
62.00	MCO 40M 60o	0.30
40.00	Clean Oil 100o	0.54

Gas Rates

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



DRILL STEM TEST REPORT

Murfin Drilling Co Inc.
 250 N WaterSte 300
 Wichita, KS 67202-1216
 ATTN: Brad Rine

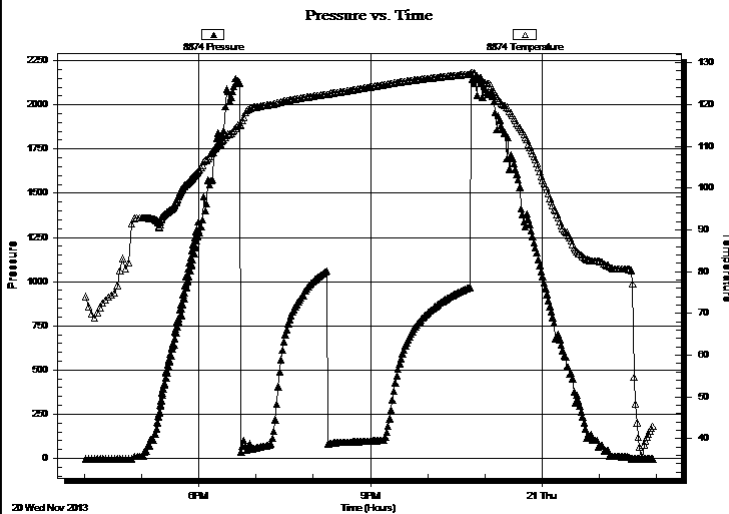
14-1s-36w Rawlins,KS
Burke Trust 'B' 1-14
 Job Ticket: 53552 **DST#: 5**
 Test Start: 2013.11.20 @ 16:00:00

GENERAL INFORMATION:

Formation: **LKC "G,H,I"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 18:43:30
 Time Test Ended: 01:55:00
 Interval: **4287.00 ft (KB) To 4402.00 ft (KB) (TVD)**
 Total Depth: 4402.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Kevin Mack
 Unit No: 66
 Reference Elevations: 3280.00 ft (KB)
 3275.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8874 Inside
 Press@RunDepth: psig @ 4288.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.11.20 End Date: 2013.11.21 Last Calib.: 2013.11.21
 Start Time: 16:01:00 End Time: 01:57:00 Time On Btm:
 Time Off Btm:

TEST COMMENT: 30 - IF- BoB in 22 min
 60 - IS- No Return
 60 - FF- BoB in 15 min.
 90 - FS- No Return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
60.00	OCM 70M 30o	0.30
62.00	MCO 50M 50o	0.30
62.00	MCO 40M 60o	0.30
40.00	Clean Oil 100o	0.54

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co Inc.

14-1s-36w Rawlins,KS

250 N WaterSte 300
Wichita, KS 67202-1216

Burke Trust 'B' 1-14

Job Ticket: 53552

DST#: 5

ATTN: Brad Rine

Test Start: 2013.11.20 @ 16:00:00

Tool Information

Drill Pipe:	Length: 4090.00 ft	Diameter: 3.80 inches	Volume: 57.37 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: 58.28 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	4287.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	115.00 ft			
Tool Length:	143.00 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			4260.00	
Shut In Tool	5.00			4265.00	
Hydraulic tool	5.00			4270.00	
Jars	5.00			4275.00	
Safety Joint	3.00			4278.00	
Packer	5.00			4283.00	28.00 Bottom Of Top Packer
Packer	4.00			4287.00	
Stubb	1.00			4288.00	
Recorder	0.00	8653	Outside	4288.00	
Recorder	0.00	8874	Inside	4288.00	
Perforations	11.00			4299.00	
Change Over Sub	1.00			4300.00	
Drill Pipe	96.00			4396.00	
Change Over Sub	1.00			4397.00	
Bullnose	5.00			4402.00	115.00 Bottom Packers & Anchor

Total Tool Length: 143.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc.
250 N WaterSte 300
Wichita, KS 67202-1216
ATTN: Brad Rine

14-1s-36w Rawlins,KS
Burke Trust 'B' 1-14
Job Ticket: 53552 **DST#: 5**
Test Start: 2013.11.20 @ 16:00:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 34 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 67.00 sec/qt	Cushion Volume: bbl	
Water Loss: 6.39 in ³	Gas Cushion Type:	
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 1000.00 ppm		
Filter Cake: 2.00 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	OCM 70M 30o	0.295
62.00	MCO 50M 50o	0.305
62.00	MCO 40M 60o	0.305
40.00	Clean Oil 100o	0.543

Total Length: 224.00 ft Total Volume: 1.448 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: Oil API 35 @ 70 deg = 34 cor

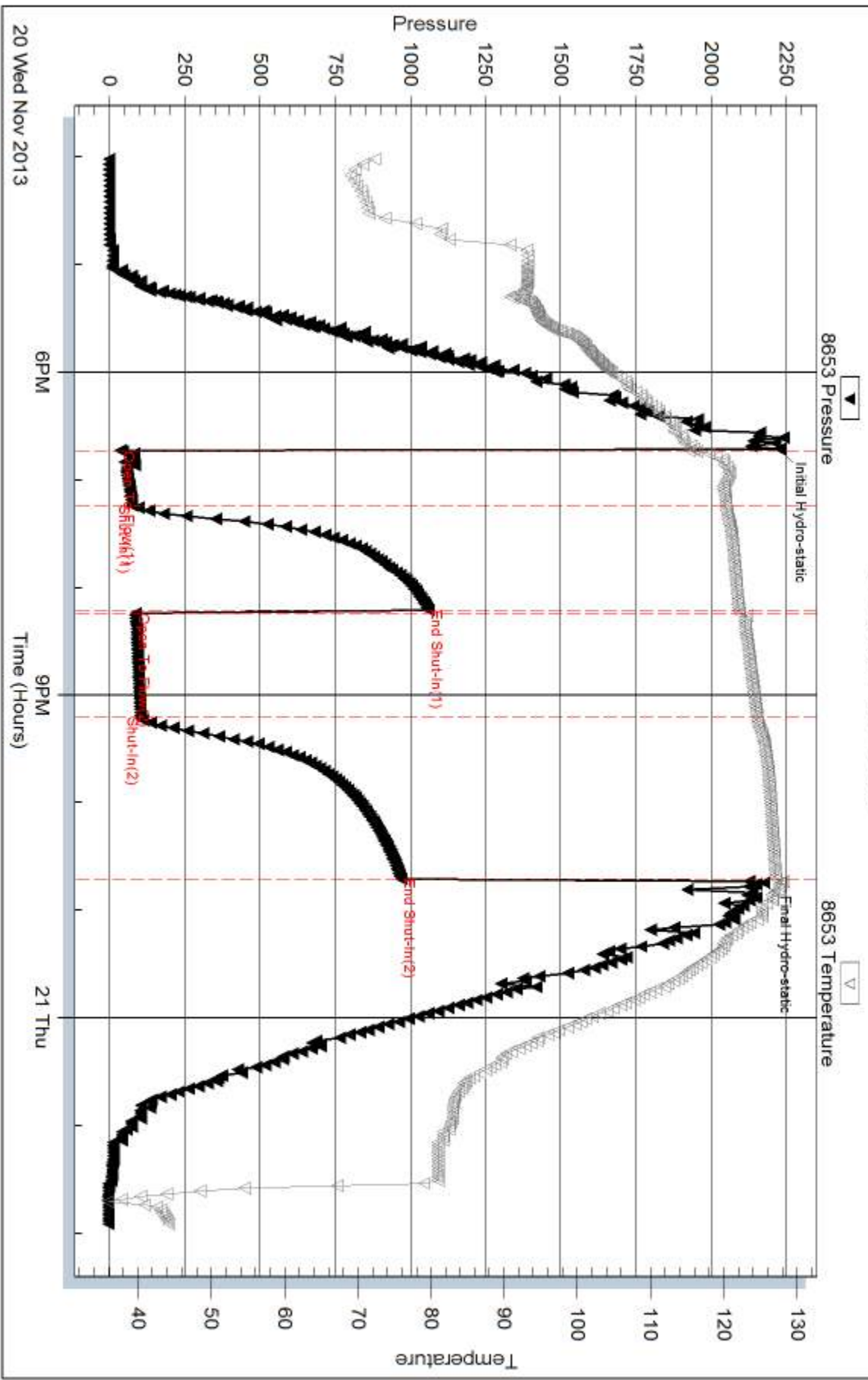
Serial #: 8653

Outside Murfin Drilling Co Inc.

Burke Trust B' 1-14

DST Test Number: 5

Pressure vs. Time



Tribble Testing, Inc

Ref. No: 53552

Printed: 2013.11.25 @ 16:23:28

Serial #: 8874

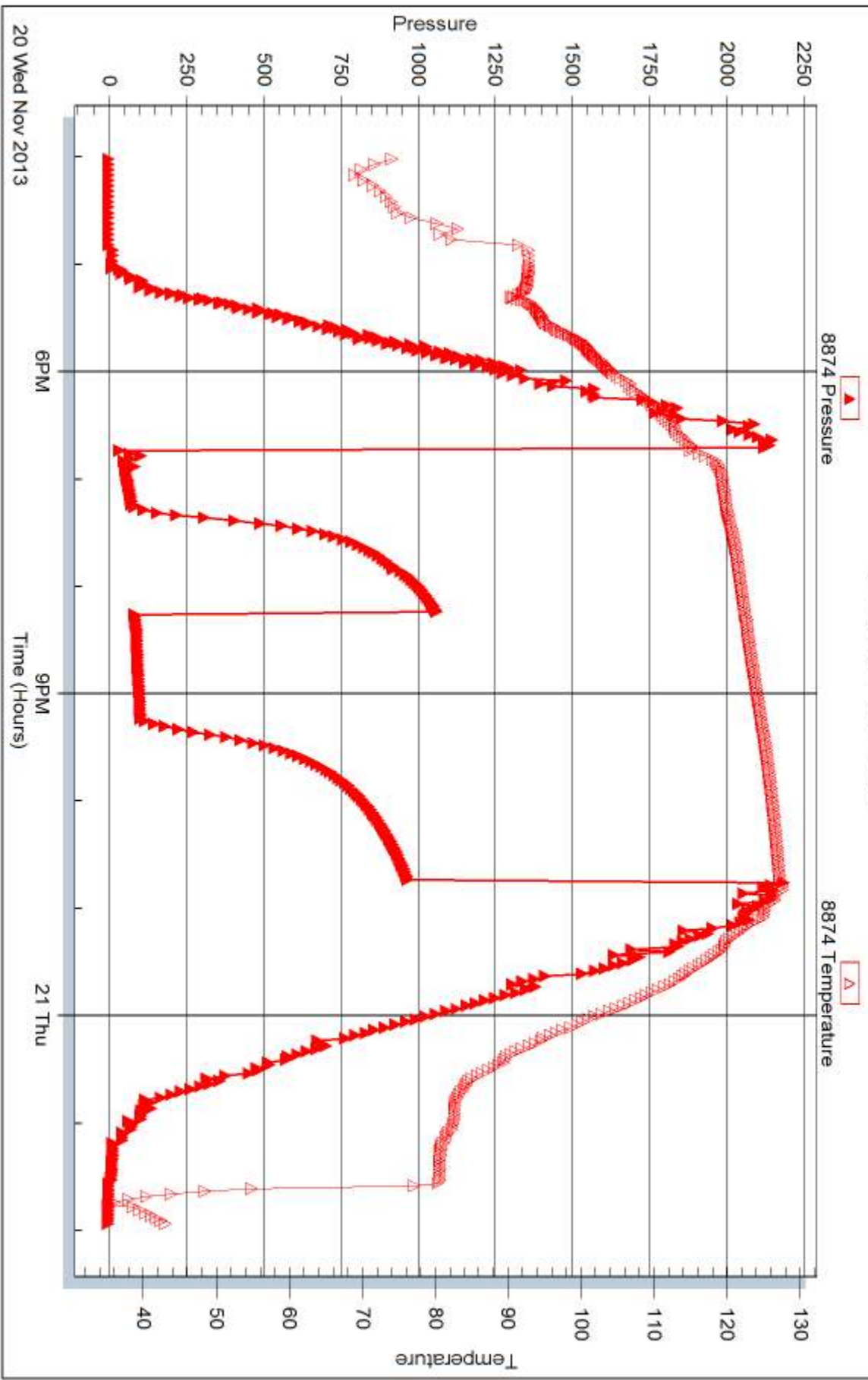
Inside

Murfin Drilling Co Inc.

Burke Trust B' 1-14

DST Test Number: 5

Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 53552

Printed: 2013.11.25 @ 16:23:29



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc.**

250 N WaterSte 300
Wichita, KS 67202-1216

ATTN: Brad Rine

Burke Trust 'B' 1-14

14-1s-36w Rawlins,KS

Start Date: 2013.11.21 @ 11:20:00

End Date: 2013.11.21 @ 21:55:30

Job Ticket #: 53553 DST #: 6

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

Printed: 2013.11.25 @ 16:19:13



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Murfin Drilling Co Inc.
 250 N WaterSte 300
 Wichita, KS 67202-1216
 ATTN: Brad Rine

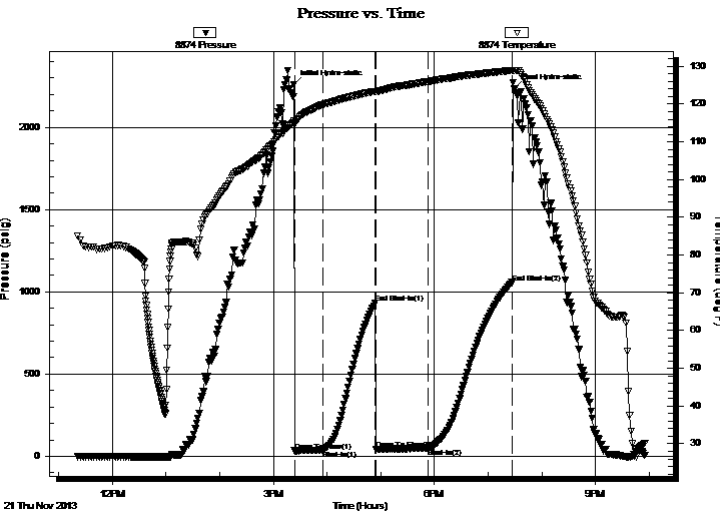
14-1s-36w Rawlins,KS
Burke Trust 'B' 1-14
 Job Ticket: 53553 **DST#: 6**
 Test Start: 2013.11.21 @ 11:20:00

GENERAL INFORMATION:

Formation: **LKC "J"**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 15:23:30 Tester: Kevin Mack
 Time Test Ended: 21:55:30 Unit No: 66
 Interval: **4391.00 ft (KB) To 4440.00 ft (KB) (TVD)** Reference Elevations: 3280.00 ft (KB)
 Total Depth: 4440.00 ft (KB) (TVD) 3275.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 5.00 ft

Serial #: 8874 Inside
 Press@RunDepth: 49.27 psig @ 4392.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.11.21 End Date: 2013.11.21 Last Calib.: 2013.11.21
 Start Time: 11:21:00 End Time: 21:55:30 Time On Btm: 2013.11.21 @ 15:23:00
 Time Off Btm: 2013.11.21 @ 19:29:30

TEST COMMENT: 30 - IF- 1/2" Blow built to 2"
 60 - IS- No Reutrn
 60 - FF- Surface Blow started at 5 min. Built to 3/4" Then died in 40 min.
 90 - FS- No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2262.05	115.48	Initial Hydro-static
1	32.79	114.98	Open To Flow (1)
32	37.63	119.81	Shut-In(1)
91	930.77	123.39	End Shut-In(1)
92	43.08	123.28	Open To Flow (2)
150	49.27	125.94	Shut-In(2)
244	1056.26	128.92	End Shut-In(2)
247	2233.24	128.80	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	OSM 100M (oil spots)	0.30
0.00	Show of free oil in tool	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co Inc.
250 N WaterSte 300
Wichita, KS 67202-1216
ATTN: Brad Rine

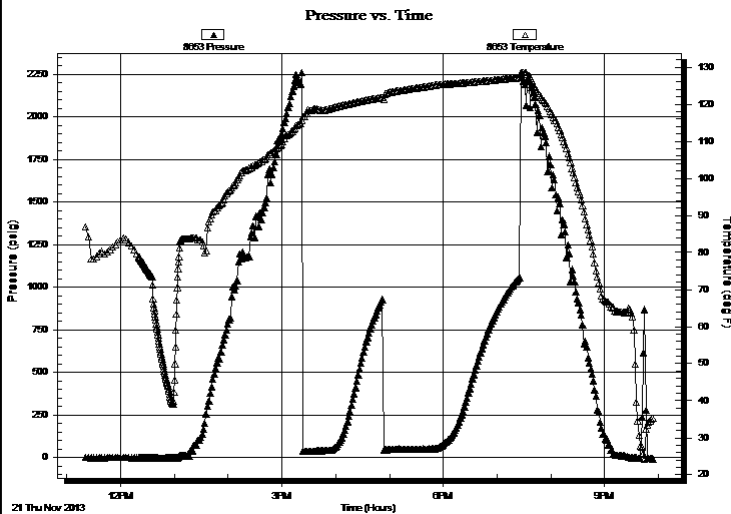
14-1s-36w Rawlins,KS
Burke Trust 'B' 1-14
Job Ticket: 53553 **DST#: 6**
Test Start: 2013.11.21 @ 11:20:00

GENERAL INFORMATION:

Formation: **LKC "J"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 15:23:30
Time Test Ended: 21:55:30
Interval: **4391.00 ft (KB) To 4440.00 ft (KB) (TVD)**
Total Depth: 4440.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Initial)
Tester: Kevin Mack
Unit No: 66
Reference Elevations: 3280.00 ft (KB)
3275.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8653 Outside
Press@RunDepth: psig @ 4392.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2013.11.21 End Date: 2013.11.21 Last Calib.: 2013.11.21
Start Time: 11:21:00 End Time: 21:53:30 Time On Btm:
Time Off Btm:

TEST COMMENT: 30 - IF- 1/2" Blow built to 2"
60 - IS- No Reutrn
60 - FF- Surface Blow started at 5 min. Built to 3/4" Then died in 40 min.
90 - FS- No Return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
60.00	OSM 100M (oil spots)	0.30
0.00	Show of free oil in tool	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co Inc.

14-1s-36w Rawlins,KS

250 N WaterSte 300
Wichita, KS 67202-1216

Burke Trust 'B' 1-14

Job Ticket: 53553

DST#: 6

ATTN: Brad Rine

Test Start: 2013.11.21 @ 11:20:00

Tool Information

Drill Pipe:	Length: 4192.00 ft	Diameter: 3.80 inches	Volume: 58.80 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: 53000.00 lb
			<u>Total Volume: 59.71 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	4391.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	49.00 ft			
Tool Length:	77.00 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			4364.00	
Shut In Tool	5.00			4369.00	
Hydraulic tool	5.00			4374.00	
Jars	5.00			4379.00	
Safety Joint	3.00			4382.00	
Packer	5.00			4387.00	28.00 Bottom Of Top Packer
Packer	4.00			4391.00	
Stubb	1.00			4392.00	
Recorder	0.00	8653	Outside	4392.00	
Recorder	0.00	8874	Inside	4392.00	
Perforations	10.00			4402.00	
Change Over Sub	1.00			4403.00	
Drill Pipe	31.00			4434.00	
Change Over Sub	1.00			4435.00	
Bullnose	5.00			4440.00	49.00 Bottom Packers & Anchor

Total Tool Length: 77.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc.

14-1s-36w Rawlins,KS

250 N WaterSte 300
Wichita, KS 67202-1216

Burke Trust 'B' 1-14

Job Ticket: 53553

DST#: 6

ATTN: Brad Rine

Test Start: 2013.11.21 @ 11:20:00

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: 67.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.39 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	OSM 100M (oil spots)	0.295
0.00	Show of free oil in tool	0.000

Total Length: 60.00 ft Total Volume: 0.295 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8874

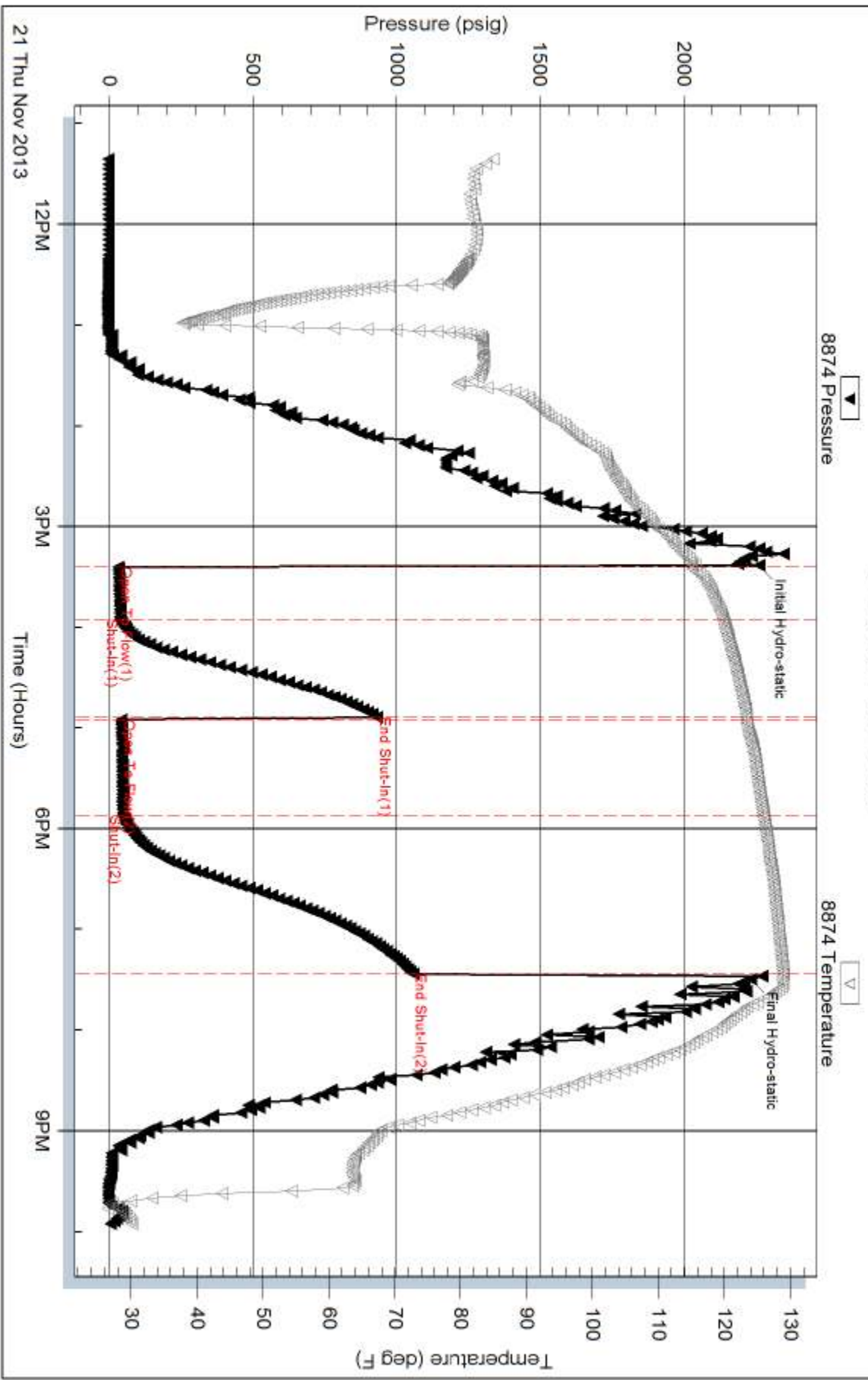
Inside

Murfin Drilling Co Inc.

Burke Trust B' 1-14

DST Test Number: 6

Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 53553

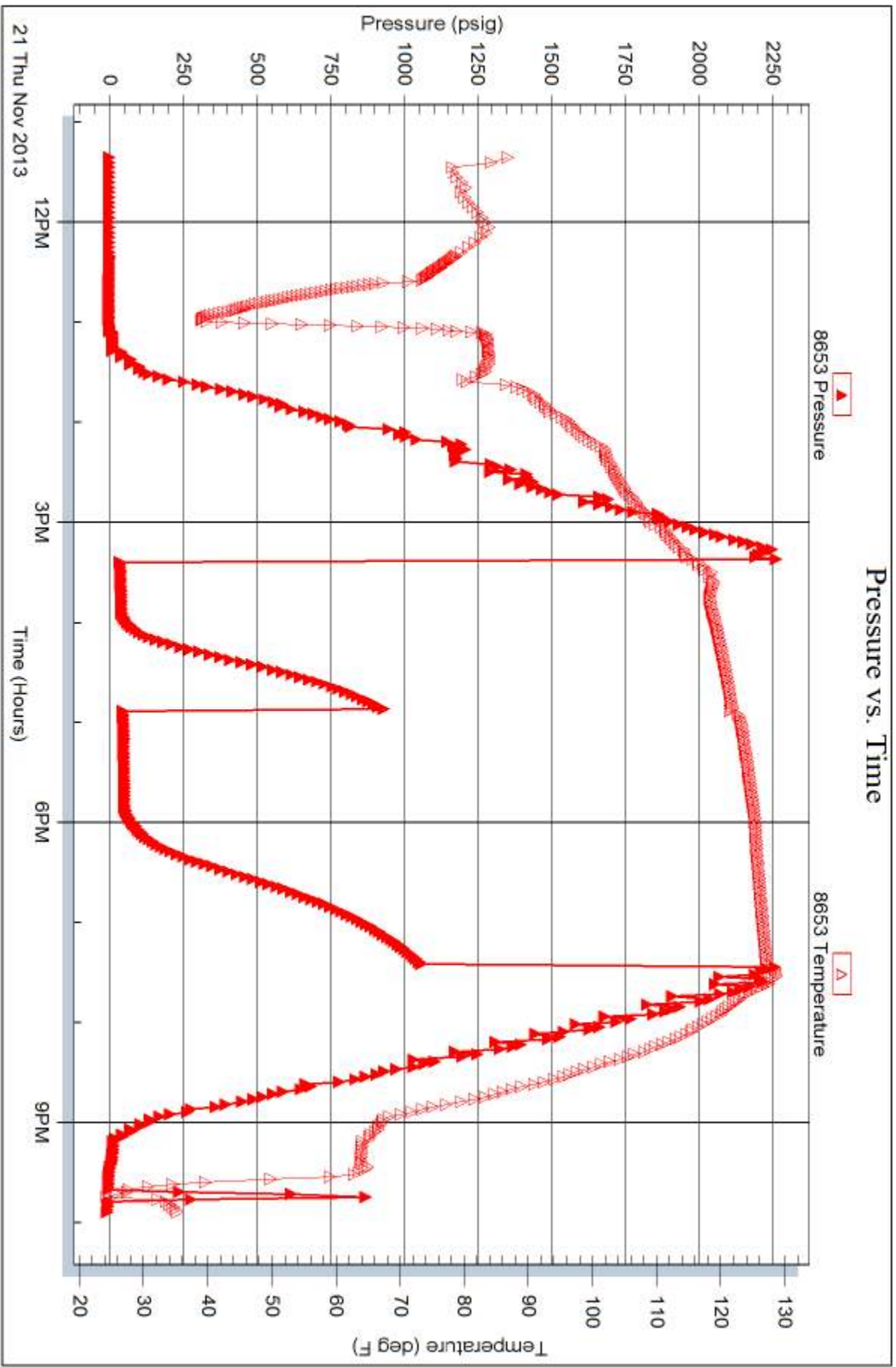
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Serial #: 8653

Outside Murfin Drilling Co Inc.

Burke Trust B' 1-14

DST Test Number: 6



Trilobite Testing, Inc

Ref. No: 53553

Printed: 2013.11.25 @ 16:19:15



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **54663**

Well Name & No. Burke Trust B 1-14 Test No. #1 Date 11/26/13
 Company Murphy Drilling Co Inc. Elevation 3280 KB 3285 GL
 Address 250 N. Water St 300 W. 1st St Hays KS 67702-1214
 Co. Rep / Geo. Brad Rine Rig Murphy #8
 Location: Sec. 14 Twp. 15 Rge. 36w Co. Rawlins State Ks

Interval Tested 3757 3815 Zone Tested Fowler
 Anchor Length 58 Drill Pipe Run 3552 Mud Wt. 8.9
 Top Packer Depth 3752 Drill Collars Run 180' Vis 57
 Bottom Packer Depth 3757 Wt. Pipe Run WL 61°
 Total Depth 3815 Chlorides 900 ppm System LCM #6

Blow Description 4" w blow good on 24 min.
No return
No blow
No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>5'</u>	<u>HMCO</u>	<u>50</u>		<u>50</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

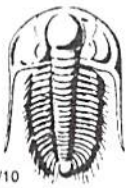
Rec Total 5' BHT 1190° Gravity API RW @ ° F Chlorides ppm

(A) Initial Hydrostatic <u>1842</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>04:00</u>
(B) First Initial Flow <u>23</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>07:55</u>
(C) First Final Flow <u>27</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>10:34</u>
(D) Initial Shut-In <u>1119</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>13:34</u>
(E) Second Initial Flow <u>32</u>	<input checked="" type="checkbox"/> Hourly Standby <u>3 1/4 hrs</u> <u>325</u>	T-Out <u>16:10</u>
(F) Second Final Flow <u>38</u>	<input checked="" type="checkbox"/> Mileage <u>254 RT</u> <u>114rt</u> <u>176.70</u>	Comments <u> </u>
(G) Final Shut-In <u>1080</u>	<input type="checkbox"/> Sampler <u> </u>	
(H) Final Hydrostatic <u>1718</u>	<input type="checkbox"/> Straddle <u> </u>	<input type="checkbox"/> Ruined Shale Packer <u> </u>

Initial Open 30 Shale Packer 250 Ruined Packer
 Initial Shut-In 60 Extra Packer Extra Copies
 Final Flow 30 Extra Recorder Sub Total 0
 Final Shut-In 60 Day Standby Total 2226.70
 Accessibility MP/DST Disc't
 Sub Total 2226.70

Approved By Brad Rine Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 55198

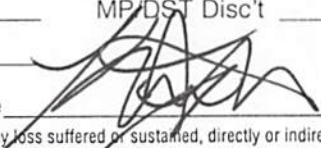
Well Name & No. Burke Trust 'B' #1227 1-14 Test No. 2 Date 11-17-13
 Company Murfin Drilling Co, Inc Elevation 3280 KB 3275 GL
 Address 250 N Webster STE #3000 Wichita, KS 67202
 Co. Rep / Geo. Brad Rine Rig Murfin #8
 Location: Sec. 14 Twp. 1S Rge. 36 W Co. Rawlins State KS

Interval Tested 4078 - 4122 Zone Tested Oread
 Anchor Length 49' Drill Pipe Run 3874 Mud Wt. 9.1
 Top Packer Depth 4074 Drill Collars Run 186' Vis 62
 Bottom Packer Depth 4078 Wt. Pipe Run 0 WL 5.6
 Total Depth 4127 Chlorides 1,100 ppm System LCM 5#
 Blow Description IE - Bleed off initial surge - surface blow built to 3"
FSE - NO Return
FF - Surface Blow started at 5 min. Built to 5 1/4"
FSE - NO Return

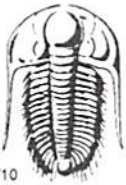
Rec	Feet of	%gas	SPOTS	%oil	%water	%mud
<u>60</u>	<u>OS UM</u>			<u>10</u>	<u>90</u>	
<u>60</u>	<u>OS UM</u>			<u>30</u>	<u>70</u>	
<u>60</u>	<u>OS UM</u>			<u>50</u>	<u>50</u>	
<u>60</u>	<u>OS MW</u>			<u>60</u>	<u>40</u>	
Rec	Feet of	%gas		%oil	%water	%mud

Rec Total 140 BHT 1308 Gravity - API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic <u>2043</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>1:00 PM</u>
(B) First Initial Flow <u>40</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>3:04 PM</u>
(C) First Final Flow <u>86</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>6:08 PM</u>
(D) Initial Shut-In <u>1151</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>10:08 PM</u>
(E) Second Initial Flow <u>91</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>1:15 AM</u>
(F) Second Final Flow <u>130</u>	<input checked="" type="checkbox"/> Mileage <u>114 RT</u> 176.70	Comments
(G) Final Shut-In <u>1137</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2007</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>1751.70</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1751.70</u>	

Approved By _____ Our Representative 

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 55199

Well Name & No. Borke Trust 'B' #1-14 Test No. 3 Date 11-18-13
 Company Muffin Drilling Co., Inc. Elevation 3280 KB 3275 GL
 Address 250 N Water STE #300 Wichita, KS 67202
 Co. Rep / Geo. Brod Rine Rig Muffin #8
 Location: Sec. 14 Twp. 15 Rge. 36W Co. Rawlins State KS

Interval Tested 4158-4250 Zone Tested L1K "A"
 Anchor Length 92' Drill Pipe Run 3964 Mud Wt. 9.1
 Top Packer Depth 4154 Drill Collars Run 186 Vis 600
 Bottom Packer Depth 4158 Wt. Pipe Run 0 WL 5.6
 Total Depth 4250 Chlorides _____ ppm System LCM 6#

Blow Description IF-1/2" Blow built to 1 1/4"
ISI-NO Return
FF-NO Blow
FSI-NO Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>100</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

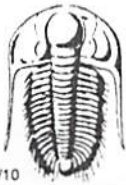
Rec Total 100 BHT 128 Gravity - API RW - @ - ° F Chlorides - ppm

(A) Initial Hydrostatic 2058 Test 1250 T-On Location 5:15 PM
 (B) First Initial Flow 17 Jars 250 T-Started 5:38 PM
 (C) First Final Flow 22 Safety Joint 75 T-Open 8:45 PM
 (D) Initial Shut-In 1038 Circ Sub NIC T-Pulled 11:45 PM
 (E) Second Initial Flow 24 Hourly Standby X 2 200 T-Out 5:40 AM
 (F) Second Final Flow 25 Mileage 114RT 176.70
 (G) Final Shut-In 975 Sampler _____
 (H) Final Hydrostatic 2036 Straddle _____

Initial Open 30 Ruined Shale Packer _____
 Initial Shut-In 600 Ruined Packer _____
 Final Flow 30 Extra Packer _____
 Final Shut-In 600 Extra Recorder _____
 Sub Total 0
 Total 1951.70
 MP/DST Disc't _____
 Sub Total 1951.70

Approved By _____ Our Representative [Signature]

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



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **55200**

Well Name & No. Burke Truss 'B' #1-14 Test No. 4 Date 11-19-13
 Company Murfin Drilling Co., Inc. Elevation 3280 KB 3275 GL
 Address 258 N Water STE #3000 Wichita, KS 67202
 Co. Rep / Geo. Bruce Rine Rig Murfin #8
 Location: Sec. 14 Twp. 15 Rge. 36W Co. Rawlins State KS

Interval Tested 4236-4293 Zone Tested LKC "D"
 Anchor Length 57' Drill Pipe Run 4030' Mud Wt. 9.3
 Top Packer Depth 4232 Drill Collars Run 186' Vis 53
 Bottom Packer Depth 4236 Wt. Pipe Run 0 WL 6.0
 Total Depth 4293 Chlorides 1,1000 ppm System LCM 6#

Blow Description IF - Bleed off initial surge - Surface Blow built to 1"
ISI - No Return
FF - Surface Blow started at 10 min. Built to 1"
FSI - No Return

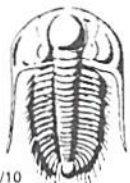
Rec	Feet of	%gas	%oil	%water	%mud
<u>122</u>	<u>Mud</u>			<u>1000</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	<u>0</u>	<u>Show oil spots in tool</u>		<u>%gas spots</u>	%oil %water %mud
Rec Total	<u>122</u>	BHT	<u>129</u>	Gravity	API RW @ °F Chlorides ppm

(A) Initial Hydrostatic 2094 Test 1250 T-On Location 2:20 PM
 (B) First Initial Flow 64 Jars 250 T-Started 3:10 PM
 (C) First Final Flow 74 Safety Joint 75 T-Open 6:00 PM
 (D) Initial Shut-In 1204 Circ Sub NIC T-Pulled 10:00 PM
 (E) Second Initial Flow 83 Hourly Standby T-Out 1:15 AM
 (F) Second Final Flow 84 Mileage 114 RT 176.70 Comments Chased tool
 (G) Final Shut-In 1192 Sampler aprox 10' to bottom
 (H) Final Hydrostatic 2082 Straddle Ruined Shale Packer
 Shale Packer Ruined Packer
 Extra Packer Extra Copies

Initial Open 30 Sub Total 0
 Initial Shut-In 60 Total 1751.70
 Final Flow 60 MP/DST Disc't
 Final Shut-In 90 Sub Total 1751.70

Approved By _____ Our Representative [Signature]

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



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 53552

Well Name & No. Burke Trust B # 1-14 Test No. 5 Date 11-20-13
 Company Murfin Drilling Co., Inc. Elevation 3280 KB 3275 GL
 Address 250 N Webster STE # 3000 Wichita, KS 67202
 Co. Rep / Geo. Broad Rine Rig Murfin #8
 Location: Sec. 14 Twp. 1S Rge. 36 W Co. Rawlins State KS

Interval Tested 4287-4402 Zone Tested LKC "A, G, H, I"
 Anchor Length 115' Drill Pipe Run 4090 Mud Wt. 9.2
 Top Packer Depth 4283 Drill Collars Run 186 Vis 67
 Bottom Packer Depth 4287 Wt. Pipe Run 0 WL 6.4
 Total Depth 4402 Chlorides 1200 ppm System LCM 6#

Blow Description IF-BoB in 22 min.
ISI- No Return
FF-BoB in 15 min.
FSI- No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>40</u>	<u>Clean Oil</u>				
<u>62</u>	<u>OSM MCO</u>		<u>40</u>	<u>60</u>	<u>40</u>
<u>62</u>	<u>OSM MCO</u>		<u>50</u>	<u>50</u>	<u>50</u>
<u>62</u>	<u>OCM</u>		<u>30</u>	<u>70</u>	<u>70</u>

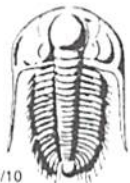
Rec Total 226 BHT 127 Gravity 34 API RW -@ - ° F Chlorides - ppm

(A) Initial Hydrostatic 2226 Test 1250 T-On Location 2:15 PM
 (B) First Initial Flow 36 Jars 250 T-Started 4:00 PM
 (C) First Final Flow 75 Safety Joint 75 T-Open 6:45 PM
 (D) Initial Shut-In 1059 Circ Sub NIC T-Pulled 10:45 PM
 (E) Second Initial Flow 88 Hourly Standby NIC T-Out 2:00 AM
 (F) Second Final Flow 103 Mileage 114RT 176.70
 (G) Final Shut-In 968 Sampler
 (H) Final Hydrostatic 2175 Straddle Ruined Shale Packer
 Shale Packer Ruined Packer
 Extra Packer Extra Copies
 Extra Recorder
 Sub Total 0
 Total 1751.70
 MP/DST Disc't

Initial Open 30
 Initial Shut-In 60
 Final Flow 60
 Final Shut-In 90
 Sub Total 1751.70

Approved By _____ Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 53553

Well Name & No. Burke Trust 'B' #1-14 Test No. 6 Date 11-21-13
 Company Murfin Drilling Co., Inc Elevation 3280 KB 3275 GL
 Address 2508 N Water STE # 3000 Wichita, KS 67202
 Co. Rep / Geo. Brad Rine Rig Murfin #8
 Location: Sec. 14 Twp. 1S Rge. 36 W Co. Rawlins State KS

Interval Tested 4391-4440 Zone Tested LKC "J"
 Anchor Length 49' Drill Pipe Run 4192' Mud Wt. 9.2
 Top Packer Depth 4387 Drill Collars Run 186' Vis 67
 Bottom Packer Depth 4391 Wt. Pipe Run 0 WL 6.4
 Total Depth 4440 Chlorides 10000 ppm System LCM 6#

Blow Description IF - 1/2" Blow built to 2"
ISI - NO Return
FF - Surface Blow started at 5 min. Built to 3/4" then died in 40 min
FSI - NO Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>600</u>	<u>OSM</u>	<u>SPOTS</u>		<u>1000</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 600 BHT 129' Gravity - API RW - @ - ° F Chlorides - ppm

(A) Initial Hydrostatic 2262 Test 1250 T-On Location 11:00 AM
 (B) First Initial Flow 32 Jars 250 T-Started 11:20 AM
 (C) First Final Flow 37 Safety Joint 75 T-Open 3:25 PM
 (D) Initial Shut-In 930 Circ Sub N/C T-Pulled 7:25 PM
 (E) Second Initial Flow 43 Hourly Standby T-Out 10:00 PM
 (F) Second Final Flow 49 Mileage 114 RT 353.40 Comments Show of free oil in test
 (G) Final Shut-In 1056 Sampler Landed tools 1:30 PM
 (H) Final Hydrostatic 2233 Straddle 11-23-13
 Shale Packer
 Ruined Shale Packer
 Ruined Packer
 Extra Packer
 Extra Copies

Initial Open 300 Extra Recorder
 Initial Shut-In 600 Extra Recorder
 Final Flow 600 Day Standby 1d 15.5h Sub Total 800
 Final Shut-In 900 Accessibility Sub Total 2728.40
 Sub Total 1928.40 MP/DST Disc't

Approved By _____ Our Representative [Signature]

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



PO Box 93999
Southlake, TX 76092

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

*Collect.
Prod - LH*

INVOICE

Invoice Number: 1398 14
Invoice Date: Nov 12, 2013
Page: 1

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

Customer ID	Field Ticket #	Payment Terms	
Murfin	61374	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	Nov 12, 2013	12/12/13

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Burk Trust #1-14	17.90	3,938.00
220.00	CEMENT MATERIALS	Class A Common	64.00	1,024.00
16.00	CEMENT MATERIALS	Chloride	2.48	572.88
231.00	CEMENT SERVICE	Cubic Feet	2.60	2,419.56
930.60	CEMENT SERVICE	Ton Mileage	1,512.25	1,512.25
1.00	CEMENT SERVICE	Surface	7.70	693.00
90.00	CEMENT SERVICE	Pump Truck Mileage	275.00	275.00
1.00	CEMENT SERVICE	Manifold Head Rental	4.40	396.00
90.00	CEMENT SERVICE	Light Vehicle Mileage		
1.00	CEMENT SUPERVISOR	Kelly Gabel		
1.00	EQUIPMENT OPERATOR	Wayne McGhghy		
1.00	OPERATOR ASSISTANT	Brandon Wilkinson		

Subtotal	10,830.69
Sales Tax	392.00
Total Invoice Amount	11,222.69
Payment/Credit Applied	
TOTAL	11,222.69

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

\$ 3,790.74 *357*

ONLY IF PAID ON OR BEFORE *PA*
Dec 7, 2013

10

-3790.74

ALLIED OIL & GAS SERVICES, LLC 061374

Federal Tax I.D. # 20-8651475

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

SERVICE POINT:
Oakley, KS

DATE <u>11-12-13</u>	SEC. <u>14</u>	TWP. <u>13</u>	RANGE <u>36W</u>	CALLED OUT	ON LOCATION <u>5:30PM</u>	JOB START <u>8:00PM</u>	JOB FINISH <u>8:30PM</u>
LEASE <u>Bulk Trust</u>	WELL# <u>1-14</u>	LOCATION <u>Beardsley, N 22 1/2 AA W 20</u>	<u>Rd 6 1/2 N west N into</u>	COUNTY <u>Rawlins</u>	STATE <u>KS</u>		
OLD OR <u>NEW</u> (Circle one)							

CONTRACTOR <u>Murfin # 8</u>	OWNER <u>Jane</u>
TYPE OF JOB <u>Surface</u>	CEMENT
HOLE SIZE <u>12 1/4</u>	AMOUNT ORDERED <u>220 SKS com 29000</u>
CASING SIZE <u>8 5/8</u>	DEPTH <u>260</u>
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL	DEPTH
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT
CEMENT LEFT IN CSG. <u>15'</u>	COMMON <u>220 @ 170 = 39300</u>
PERFS.	POZMIX @
DISPLACEMENT <u>15 1/2</u>	GEL @
	CHLORIDE <u>16 @ 640 = 10240</u>
	ASC @
	@
	@
	@
	@
	@
	@
	HANDLING <u>231 cut + @ 270 = 52288</u>
	MILEAGE <u>10.342 x 90 x 250 = 241956</u>
	TOTAL <u>795454</u>

EQUIPMENT

PUMP TRUCK	CEMENTER <u>Kelly Gabel</u>
# <u>122</u>	HELPER <u>Wayne Mahogany</u>
BULK TRUCK	
# <u>3864310</u>	DRIVER <u>Brandon Wilkinson</u>
BULK TRUCK	
#	DRIVER

REMARKS:

Cement did circulate

Thank you for Kelly & crew!

CHARGE TO: Murfin

STREET _____

CITY _____ STATE _____ ZIP _____

SERVICE

DEPTH OF JOB	<u>260'</u>
PUMP TRUCK CHARGE	<u>1512.38</u>
EXTRA FOOTAGE	@
MILEAGE <u>MHV 90</u>	@ <u>770 = 693.00</u>
MANIFOLD <u>Head</u>	@ <u>275.00</u>
<u>MHV 90</u>	@ <u>410 = 396.00</u>
	@
TOTAL	<u>2876.25</u>

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.

PRINTED NAME Ray Fair

SIGNATURE Ray Fair

SALES TAX (If Any) _____

TOTAL CHARGES 10,830.69

DISCOUNT 3,790.74 IF PAID IN 30 DAYS

7,039.94 Net.



CONSOLIDATED
Oil Well Services, LLC

Acct -
cc: WF
cc: Liz
cc: L-1

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 # 264298

Invoice Date: 11/25/2013 Terms: 10/10/30,n/30

Page 1

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

BURK TRUST B 1-14
44545
14-1-36
11-23-2013
KS

USED FOR IC 102
APPROVED JR

Part Number	Description	Qty	Unit Price	Total
1126	OIL WELL CEMENT	200.00	23.7000	4740.00
1110A	KOL SEAL (50# BAG)	1000.00	.5600	560.00
1104S	CLASS "A" CEMENT (SALE)	300.00	18.5500	5565.00
1102	CALCIUM CHLORIDE (50#)	564.00	.9400	530.16
1101	CAL SEAL	564.00	.5200	293.28
1111A	SODIUM METASILICATE	564.00	2.5200	1421.28
1118B	PREMIUM GEL / BENTONITE	564.00	.2700	152.28
1142A	KCL SUB MB6875 CC3107 (1	2.00	41.1000	82.20
1144G	MUD FLUSH (SALE)	500.00	1.0000	500.00
1107	FLO-SEAL (25#)	150.00	2.9700	445.50
4159	FLOAT SHOE AFU 5 1/2"	1.00	433.7500	433.75
4454	5 1/2" LATCH DOWN PLUG	1.00	567.0000	567.00
4136	TURBOLIZER 5 1/2"	15.00	75.7500	1136.25
4104	CEMENT BASKET 5 1/2"	3.00	290.0000	870.00
4315	ROTATING SCRATCHERS	16.00	94.5000	1512.00
1111	SODIUM CHLORIDE (GRANULA	100.00	.0000	.00

Sublet Performed	Description	Total
9996-130	CEMENT MATERIAL DISCOUNT	-1880.87
9995-130	CEMENT EQUIPMENT DISCOUNT	-678.48

Description	Hours	Unit Price	Total
399 SINGLE PUMP	1.00	3175.00	3175.00
399 EQUIPMENT MILEAGE (ONE WAY)	75.00	5.25	393.75
460 TON MILEAGE DELIVERY	1.00	1608.00	1608.00
T-129 TON MILEAGE DELIVERY	1.00	1608.00	1608.00

Amount Due 27079.33 if paid after 12/25/2013

Parts:	18808.70	Freight:	.00	Tax:	1337.29	AR	24371.39
Labor:	.00	Misc:	.00	Total:	24371.39		
Sublt:	-2559.35	Supplies:	.00	Change:	.00		

Signed

Date



CONSOLIDATED
Oil Well Services, LLC

264298

TICKET NUMBER 44545

LOCATION OHLEY KS.

FOREMAN DAMON M. WALT

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

FIELD TICKET & TREATMENT REPORT

CEMENT

KANSAS

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY	
11-23-13	5406	BURKE TRUST B 1-14	14	1	36	RAWLINS	
CUSTOMER MURFIN DRLEB		DEAROSLY N YORDY W4 YORDY 3 1/2 N 1/2 W N 100		TRUCK #	DRIVER	TRUCK #	DRIVER
MAILING ADDRESS				399	DANER.		
CITY		STATE		460	STEVEN		
ZIP CODE				528 T-129	TIM W		

JOB TYPE LONGSTRING HOLE SIZE 7 7/8 HOLE DEPTH 4800 CASING SIZE & WEIGHT 5 1/2 15.5*
 CASING DEPTH 4693 DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT 10.7/138 SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT IN CASING SHOE 20.99
 DISPLACEMENT 113.57 DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: SAFETY MEETING RIG UP ON MURFIN #8 RAN FLOAT EQUIPMENT TURBOH20S ON #1, 2, 3, 4, 5, 6, 7, 8, 10, 12, 14, 16, 18, 26, 38 SCRATCHERS ON 3 on 9, 3 on 10, 2 on 11, 2 on 12, 4 on 13, 3 on 17 BASKETS ON 15, 27, 39, CIRCULATE 30 MIN ON #10 RAN REST OF JOINTS CIRCULATE ON BOTTOM FOR 1 HR. PUMP 5 BBL OF H2O THEN 500 GAL OF MUD FLUSH THEN 5 BBL OF H2O MIXED 250 SKS CMC 1/2" FLOSEAL TAILING IN WITH 200 SKS OWC #5 KOLSEAL SITUR DOWN CLEARED PUMP AND LINES RELEASED PLUG THEN PUMPED 113 BBL OF H2O FIRST 20 BBL HAD KCL LIFE WAS #1600 LANDED PLUG @ #2100 RELEASED PRESSURE FLOAT HELD CEMENT DID CIRCULATE APPROX 20 BBL TO THE PIT

PH 30 SKS MH 20 SKS THANK YOU DAMON WALT CREW

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401C	1	PUMP CHARGE	3175.00	3175.00
5406	75	MILEAGE	5.25	393.75
5407A	24.5	TON MILEAGE DELIVERY	1.75	326.00
1126	200 SKS	OWC	23.70	4740.00
1110A	1000#	KOLSEAL	.56	560.00
1104S	300 SKS	CLASS A CEMENT	18.55	5565.00
1102	564#	CALCIUM CHLORIDE	.94	530.16
1101	564#	CALSEAL	.52	293.28
1111A	564#	METASILICATE	2.52	1421.28
1118B	564#	BETONITE	.27	152.28
1142A	2 GAL	KCL	41.10	82.20
1144B	500 GAL	MUD FLUSH	1.00	500.00
1107	150#	FLOSEAL	2.97	445.50
4159	1	APU FLOAT SHOE 5 1/2 (I)	433.75	433.75
4454	1	5 1/2 LATCHDOWN PLUG (E)	567.00	567.00
4136	15	TURBOLIZERS 5 1/2 (W)	75.75	1136.25
4104	3	5 1/2 BASKETS (W)	290.00	870.00
4315	16	5' SCRATCHERS (W)	94.50	1512.00
011	2 100#	SALT	N/C	N/C
			SALES TAX	1337.29

25393.45 LESS 10% 2539.35 SUBTOTAL 23034.10 ESTIMATED TOTAL 24371.39

AUTHORIZATION [Signature] TITLE completed 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.