



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1091141
OIL & GAS CONSERVATION DIVISION

Form ACO-1
August 2013

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

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- Deepening Re-perf. Conv. to ENHR Conv. to SWD
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
-----------------------------------	-----------------	---

API No. 15 - _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

- Confidentiality Requested
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____

1091141

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: <input type="checkbox"/> Yes <input type="checkbox"/> No
----------------	-------	---------	------------	---

Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____
---	--

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> _____	PRODUCTION INTERVAL: _____ _____
--	--	---

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

Sam Brownback, Governor

August 20, 2012

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

Re: ACO1
API 15-193-20836-00-00
Steele 'A' 3-20
NE/4 Sec.20-10S-34W
Thomas 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.

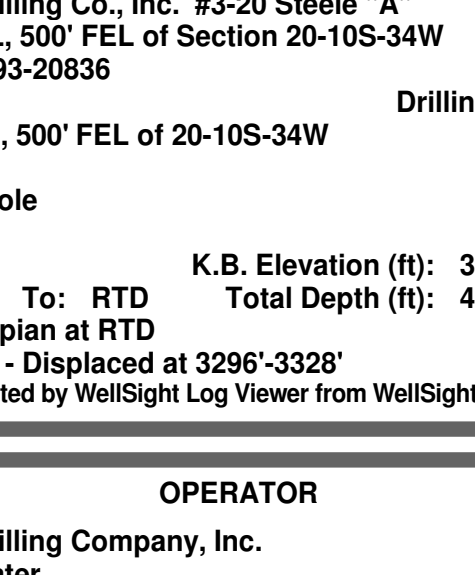
Respectfully,
Leon Rodak

	MDCI Steele 'A' #3-20 1170 FNL 500 FEL Sec. 20-10S-34W 3248' KB						MDCI Steele 'A' #2-20 2200' FNL 550' FEL Sec. 20-T10S-R34W 3250' KB	
Formation	Sample Top	Datum	Ref	Log Tops	Datum	Ref	Log Top	Datum
Anhydrite	2740	+508	+10	2746	+502	+4	2752	+498
B/Anhydrite	2770	+478	+5	2774	+474	+1	2777	+473
Topeka	3907	-659	-1	3909	-661	-3	3908	-658
Heebner	4121	-873	-1	4127	-879	-7	4122	-872
Lansing	4166	-918	-3	4170	-922	-7	4165	-915
Stark	4387	-1139	-3	4393	-1145	-9	4386	-1136
Pawnee	4584	-1336	-6	4494	-1246	-16	4580	-1330
Fort Scott	4635	-1387	-1	4648	-1400	-12	4638	-1388
Johnson Zn	4710	-1462	-2	4721	-1473	-9	4714	-1464
Mississippi	4811	-1563	-9	4820	-1572	-18	4804	-1554
RTD	4885						4900	
LTD				4890			4900	



WESLEY D. HANSEN Consulting Petroleum Geologist
 212 N. Market, Suite 217, Wichita, KS 67202
 Office: 316-263-7313 Cellular: 316-772-6188

**KGS
 AAPG
 Kansas License #A18**



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

Well Name: **Murfin Drilling Co., Inc. #3-20 Steele "A"**
 Location: **1170 FNL, 500 FEL of 20-105-34W**
 License Number: **API 15-193-20936**
 Spud Date: **5-2-2012** Drilling Completed: **5-14-2012**
 Surface Coordinates: **1170 FNL, 500 FEL of 20-105-34W** Region: **Thomas County, KS**

Bottom Hole Vertical hole
 Ground Elevation (ft): **3237'** K.B. Elevation (ft): **3248'**
 Log Deviation (ft): **3300'** to **RTD** at **Mississippian** at **Mississippian** at **Mississippian**
 Formation: **Mississippian** at **Mississippian** at **Mississippian**
 Type of Drilling Fluid: **Chemical - Displaced at 3296'-3328'**
 Printed by WellSight Viewer from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR
 Company: **Murfin Drilling Company, Inc.**
 Address: **250 N. Water Suite 300 Wichita, KS 67202**

GEOLOGIST
 Name: **Wesley D. Hansen**
 Company: **Wesley D. Hansen - Consulting Petroleum Geologist**
 Address: **212 N. Market, Suite 217, Wichita, KS 67202**
 Office: **316-263-7313 Cellular: 316-772-6188**

COMMENTS
 Contractor: **Murfin Drilling Company, Inc. Rig #20**
 Surface Casing: **8 5/8" set at 268' w/200 sc. ran 1" w/100 sc @30'**
 Production Casing: **P&A**
 Mud by: **Morgan Mud - Dave Lines was the engineer**
 DST's by: **Tribolite - Chuck Smith was the tester**
 Logs by: **Log-Tech (DL, CN-CD, MEL, BHC)**
 Deviation Surveys: **1/4 deg. @ 288'; 1 deg. @ 1049'; 1/2 deg. @ 1553'; 1/4 deg. @ 2094'; 1/2 deg. @ 2631'; 1/2 deg. @ 3171'; 3/4 deg. @ 3643'; 1 1/2 deg. @ 4208'; 1 3/4 deg. @ 4413'; 1 3/4 deg. @ 4885'**

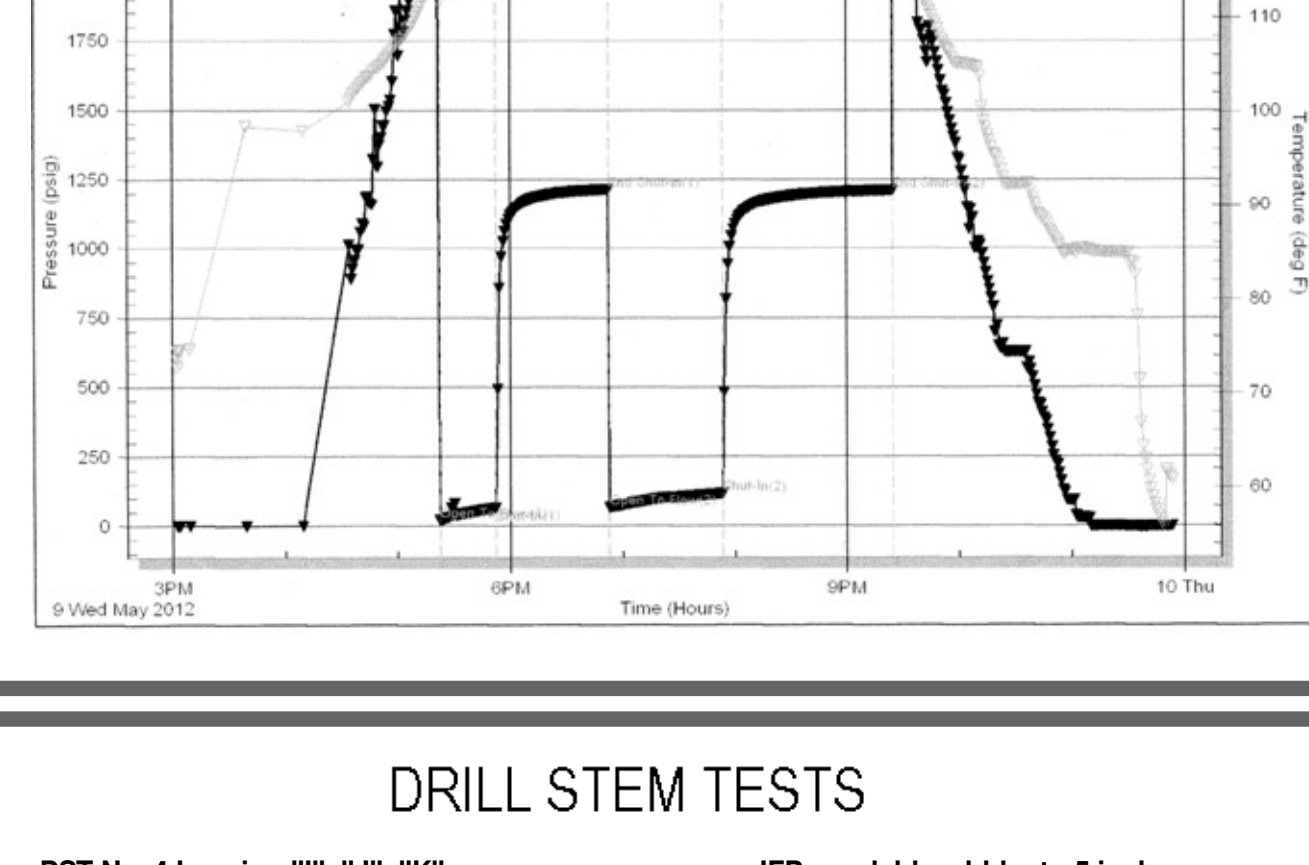
Bit #	Size	MFG	Type	Depth Out	Footage Cut	Hours on bit
1	12 1/4"	HTC	EHT116C	268'	368'	3 1/4
2	7 7/8"	HTC	DP506F	3643'	2375'	5 1/2
3	7 7/8"	HTC	GX22S rerun	4413'	772'	50 3/4
4	7 7/8"	HTC	GX22S rerun	4885'	470'	43 1/4

FORMATION TOPS AND STRUCTURAL COMPARISON

FORMATION	SAMPLE TOPS Depth	Datum	LOG TOPS Depth	Datum	COMPARISON WELL MCCI Steele "A" 2-20 2200 FNL, 550' FEL Section 20-105-34W 3250' KB
Anhydrite	2740'	+508	2746'	+502	+4'
B/Anhydrite	2770'	+478	2774'	+474	+1'
Heebner Shale	2807'	-659	2817'	-652	-4'
Lansing	4166'	-918	4170'	-922	-7'
Muncie Creek Shale	4298'	-1050	4304'	-1056	-6'
Stark Shale	4387'	-1139	4393'	-1145	-7'
Marmaton	4493'	-1245	4497'	-1249	-4'
Pawnee	4584'	-1336	4593'	-1345	-15'
Fort Scott	4635'	-1387	4648'	-1400	-12'
Cherokee Shale	4667'	-1419	4670'	-1422	-2'
Johnson Zone	4710'	-1462	4724'	-1476	-12'
Morrow	4754'	-1506	4755'	-1517	+11'
Mississippian	4811'	-1563	4822'	-1574	-20'
RTD	4885'	-1637	4894'	-1646	

DRILL STEM TESTS

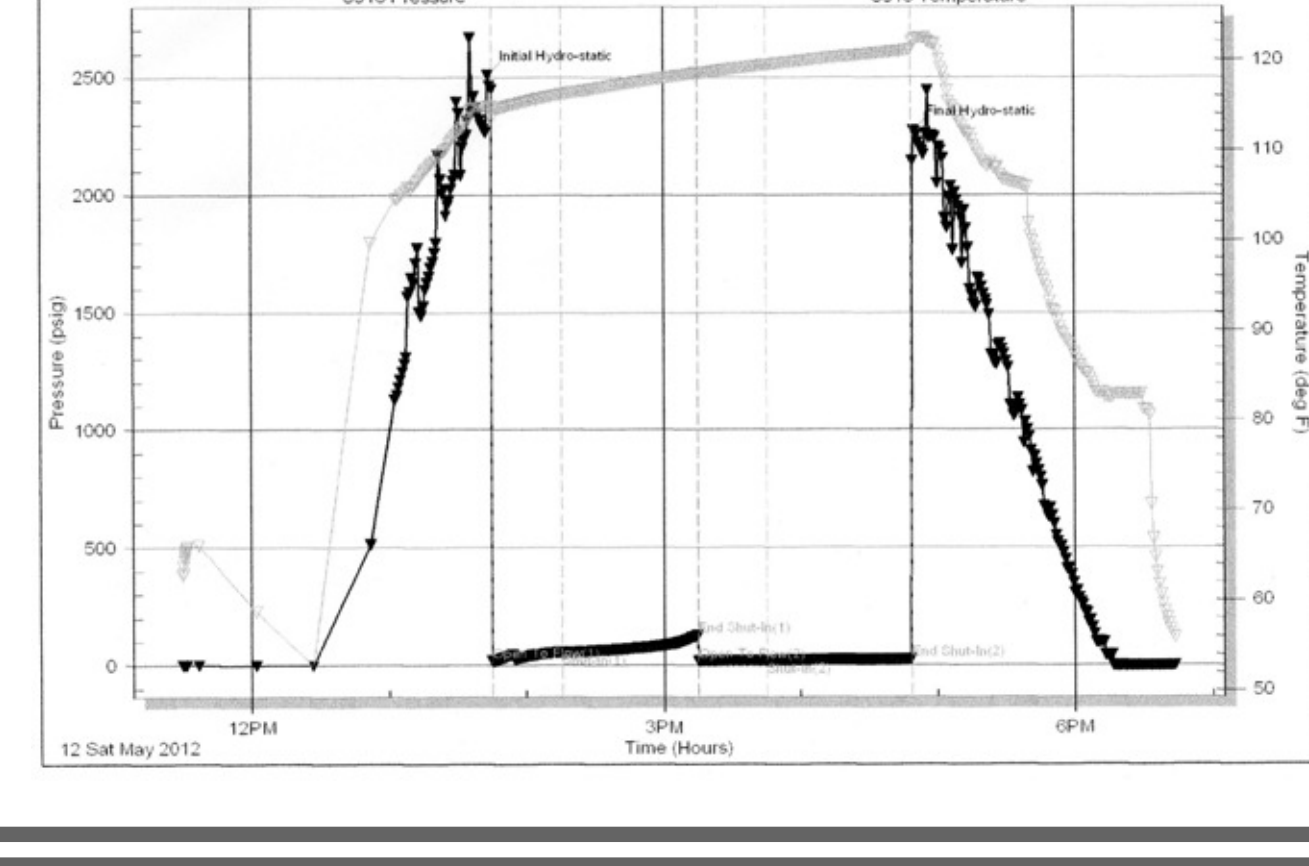
DST No. 1 Lansing "B"
 Interval: 4190'-4260'
 Times: 30-60-60-90
 Recovery: 156' MCW (15m, 85w); 1134' w/oill
 Topcase in the tool: chl 58,000
 Recovery: 22' WCM (30w, 70m); 505' MCW
 (5m, 95w), oil spots in tool: chl 65,000
 HP: 21-60-178-349 SIP: 1200-1164
 HP: 21-60-178-349 SIP: 1200-1164
 HP: 21-60-178-349 SIP: 1200-1164
 HP: 21-60-178-349 SIP: 1200-1164



IFP: fair to strong, B.O.B. in 7 minutes
 ISIP: no return blow
 FSP: no return blow

DRILL STEM TESTS

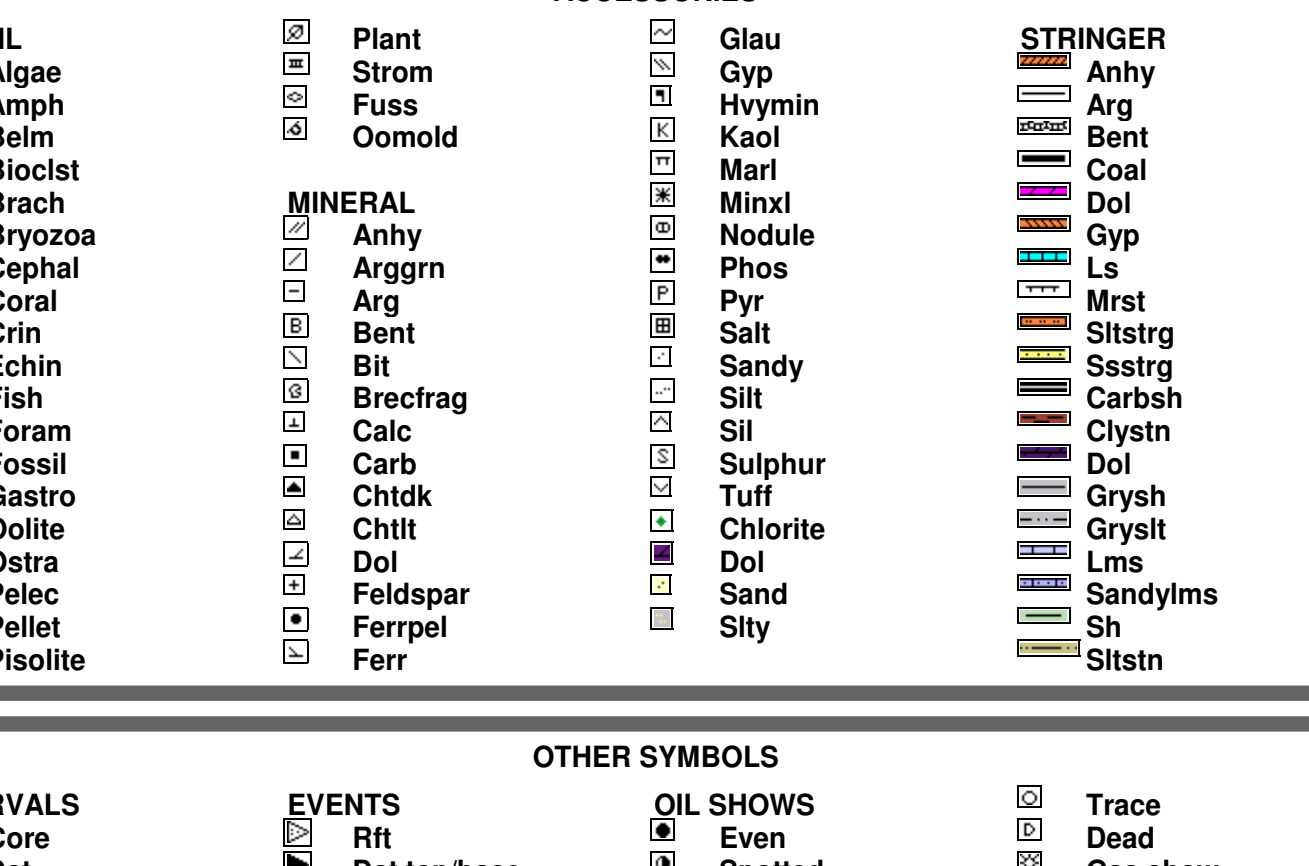
DST No. 2 Lansing "E" and "F"
 Interval: 4237'-4630'
 Times: 30-60-60-90
 Recovery: 22' WCM (30w, 70m); 505' MCW
 (5m, 95w), oil spots in tool: chl 65,000
 HP: 21-60-178-349 SIP: 1200-1164
 HP: 21-60-178-349 SIP: 1200-1164
 HP: 21-60-178-349 SIP: 1200-1164
 HP: 21-60-178-349 SIP: 1200-1164



IFP: fair low bldg, to B.O.B. in 15 1/2 minutes
 ISIP: no return blow
 FSP: no return blow

DRILL STEM TESTS

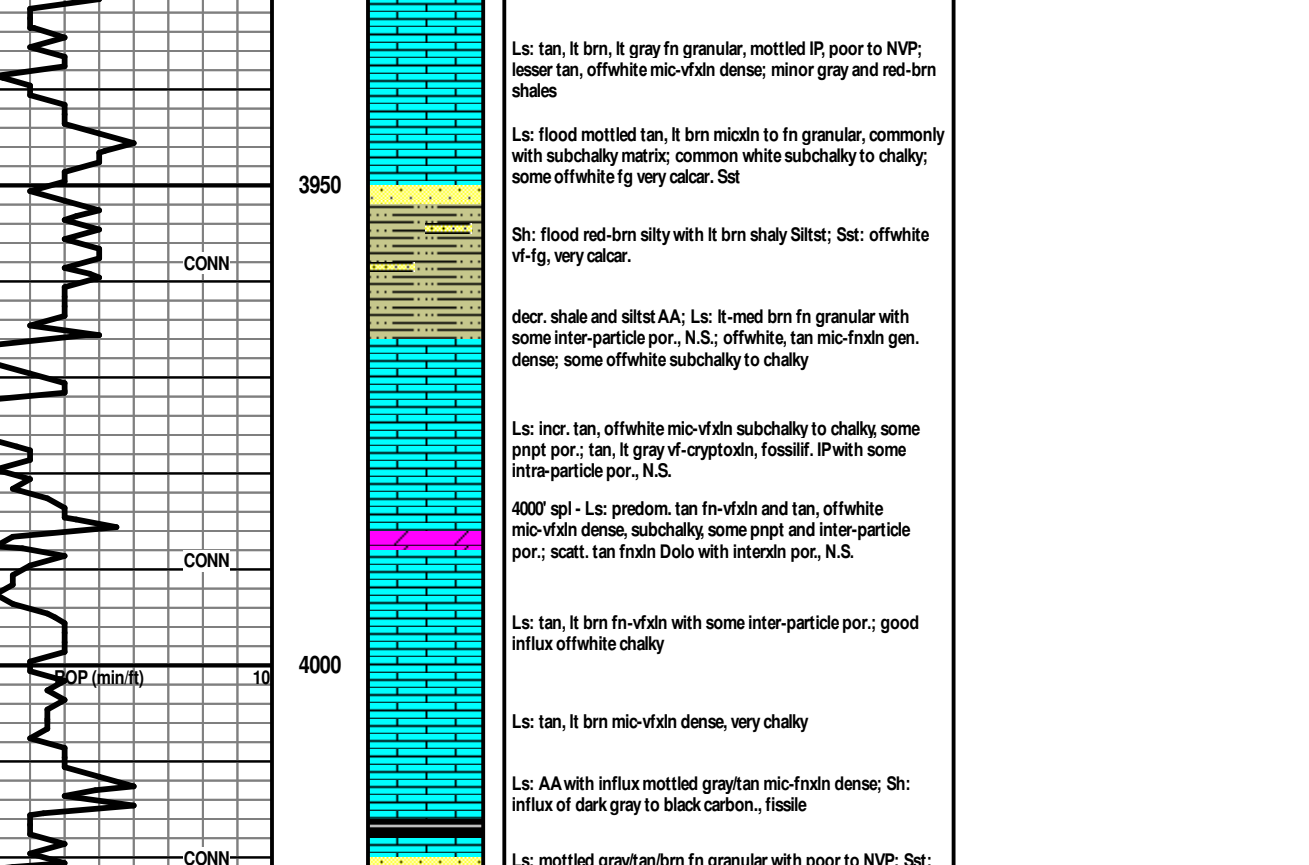
DST No. 3 Lansing "H"
 Interval: 4237'-4630'
 Times: 30-60-60-90
 Recovery: 2' oil; 29' WCM with oil spots (20w, 80m); 179' MCW (50m, 80w), chl 40,000
 Recovery: 60' SOCM (2s, 98m)
 HP: 21-60-178-349 SIP: 1200-1164
 HP: 21-60-178-349 SIP: 1200-1164
 HP: 21-60-178-349 SIP: 1200-1164
 HP: 21-60-178-349 SIP: 1200-1164



IFP: weak low bldg, to 3 1/2 inches
 ISIP: surface return blow, died in 10 minutes
 FSP: surface return blow, died in 22 minutes

DRILL STEM TESTS

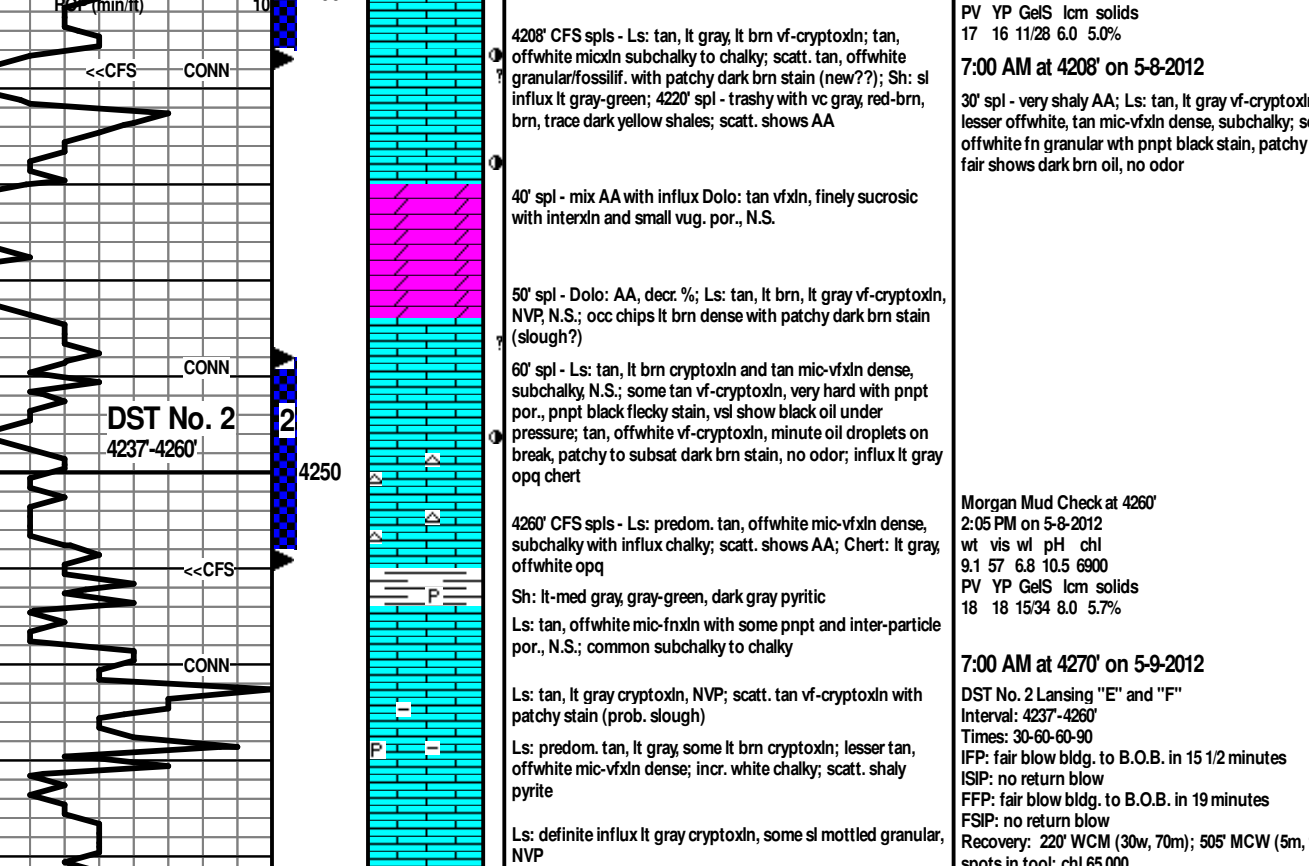
DST No. 4 Lansing "I", "J", "K"
 Interval: 4324'-4630'
 Times: 30-60-60-90
 Recovery: 61' mud w/oil spots (45w, 60m); 179' MCW w/oil spots (45m, 50w), chl 55,000
 Recovery: 60' SOCM (2s, 98m)
 HP: 21-60-178-349 SIP: 1200-1164
 HP: 21-60-178-349 SIP: 1200-1164
 HP: 21-60-178-349 SIP: 1200-1164
 HP: 21-60-178-349 SIP: 1200-1164



IFP: weak low bldg, to 5 inches
 ISIP: no return blow
 FSP: weak low bldg, to 5 inches
 no return blow

DRILL STEM TESTS

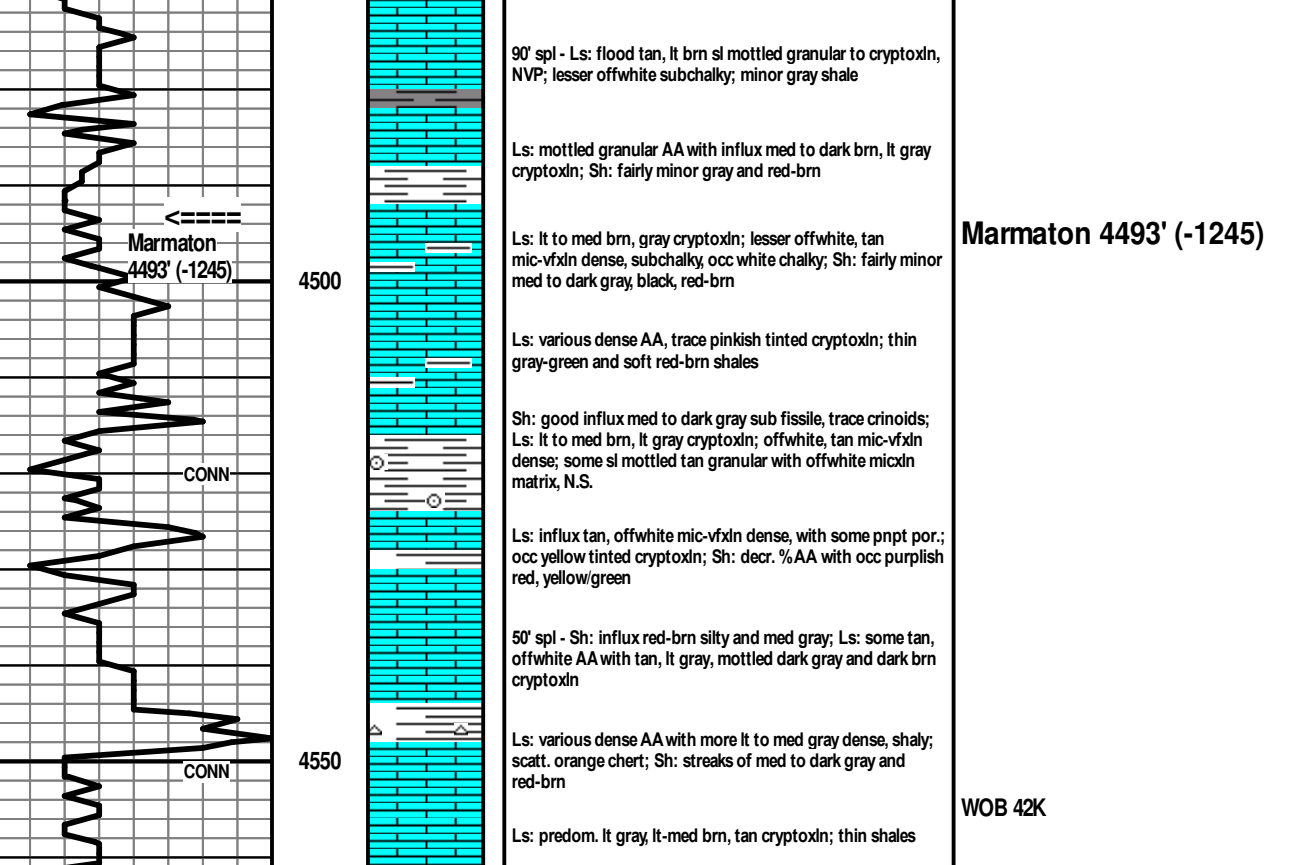
DST No. 5 Myrick Station
 Interval: 4603'-4630'
 Times: 30-60-60-90
 Recovery: 1' mud 128-27
 FP: 19-50-18-20 SIP: 1104-1046
 HP: 21-60-178-349 SIP: 1200-1164
 HP: 21-60-178-349 SIP: 1200-1164
 HP: 21-60-178-349 SIP: 1200-1164
 HP: 21-60-178-349 SIP: 1200-1164



IFP: weak surface blow, died in 12 minutes
 ISIP: no return blow
 FSP: no blow

DRILL STEM TESTS

DST No. 6 Johnson Zone
 Interval: 4324'-4630'
 Times: 30-60-60-90
 Recovery: 60' SOCM (2s, 98m)
 HP: 21-60-178-349 SIP: 1200-1164
 HP: 21-60-178-349 SIP: 1200-1164
 HP: 21-60-178-349 SIP: 1200-1164
 HP: 21-60-178-349 SIP: 1200-1164



IFP: weak 1/2 inch blow, died in 25 minutes
 ISIP: no return blow
 FSP: no return blow

ROCK TYPES

Chy	Salt	Dol	Sdydolo
Anph	Shale	Myrn	Arg
Coal	Shcol	Gry sh	Silydolo
Congl	Shp	Gry shms	Silydolo
Dolo	Ss	Shale	Shaly ls
Gyp	Cs	Siltstns	
Lp	Cs sh	Siltstns	

ACCESSORIES

Plant	Glyp	STRINGER
Algae	Strom	Anhy
Belm	Oomold	Beal
Bioclst		Dol
Brach		Dol
Eryozoa	MINERAL	Qzsh
Cephal	Anhy	Py
Coral	Arggn	Py
Crin	Arg	Salt
Echin	Bent	Salt
Fish	Brecfrag	Silt
Foram	Calc	Sil
Fossil	Carb	Sulphur
Gastro	Chitck	Chlorite
Oolite	Chitck	Dol
Ostra	Feldspar	Sand
Pellet	Ferrol	Sity
Pisolite	Ferr	

INTERVALS

Core
 Dst
 Dst

EVENTS

Rt
 Dst top/base

OTHER

Oil Shows
 Even
 Spotted
 Quest

Trace
 Dead
 Gas show



Wesley D. Hansen
 Petroleum Geologist
 Kansas License No. A18



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co.**

250 N. Water Ste. 300
Wichita, KS 67202

ATTN: Wes Hansen

Steele "A" #3-20

S20-10s-34w Thomas, KS

Start Date: 2012.05.07 @ 21:42:00

End Date: 2012.05.08 @ 07:09:30

Job Ticket #: 46639 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.05.16 @ 09:54:15



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co.
250 N. Water Ste. 300
Wichita, KS 67202
ATTN: Wes Hansen

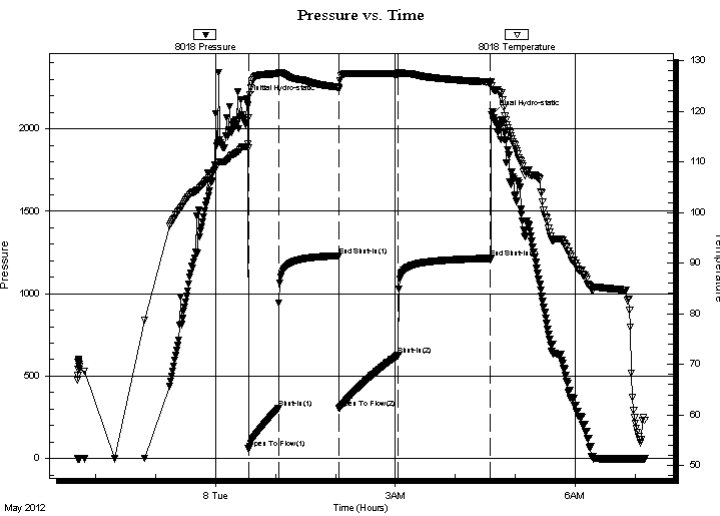
S20-10s-34w Thomas, KS
Steele "A" #3-20
Job Ticket: 46639 **DST#: 1**
Test Start: 2012.05.07 @ 21:42:00

GENERAL INFORMATION:

Formation: **LKC "B"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 00:32:40
Time Test Ended: 07:09:30
Interval: **4190.00 ft (KB) To 4208.00 ft (KB) (TVD)**
Total Depth: 4208.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Initial)
Tester: Chuck Smith
Unit No: 37
Reference Elevations: 3248.00 ft (KB)
3237.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 8018 Inside
Press @ Run Depth: 628.69 psig @ 4194.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2012.05.07 End Date: 2012.05.08 Last Calib.: 2012.05.08
Start Time: 21:42:02 End Time: 07:09:30 Time On Btm: 2012.05.08 @ 00:31:00
Time Off Btm: 2012.05.08 @ 04:36:10

TEST COMMENT: B.O.B. @ 7 min.
No return.
B.O.B. @ 8 min.
No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2181.16	112.99	Initial Hydro-static
2	59.45	112.80	Open To Flow (1)
32	305.25	127.42	Shut-In(1)
93	1230.96	124.76	End Shut-In(1)
93	306.34	124.42	Open To Flow (2)
152	628.69	127.38	Shut-In(2)
244	1215.07	125.76	End Shut-In(2)
246	2086.78	124.96	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
156.00	MW 15m 85w	0.77
1134.00	W 100w Oil spots in tool.	15.70

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: Wes Hansen

S20-10s-34w Thomas, KS
Steele "A" #3-20
Job Ticket: 46639 **DST#: 1**
Test Start: 2012.05.07 @ 21:42:00

GENERAL INFORMATION:

Formation: **LKC "B"**
Deviated: **No Whipstock:** **ft (KB)**
Time Tool Opened: **00:32:40**
Time Test Ended: **07:09:30**

Interval: 4190.00 ft (KB) To 4208.00 ft (KB) (TVD)
Total Depth: **4208.00 ft (KB) (TVD)**
Hole Diameter: **7.88 inches**Hole Condition: **Good**

Test Type: **Conventional Bottom Hole (Initial)**
Tester: **Chuck Smith**
Unit No: **37**

Reference Elevations: **3248.00 ft (KB)**
3237.00 ft (CF)
KB to GR/CF: **11.00 ft**

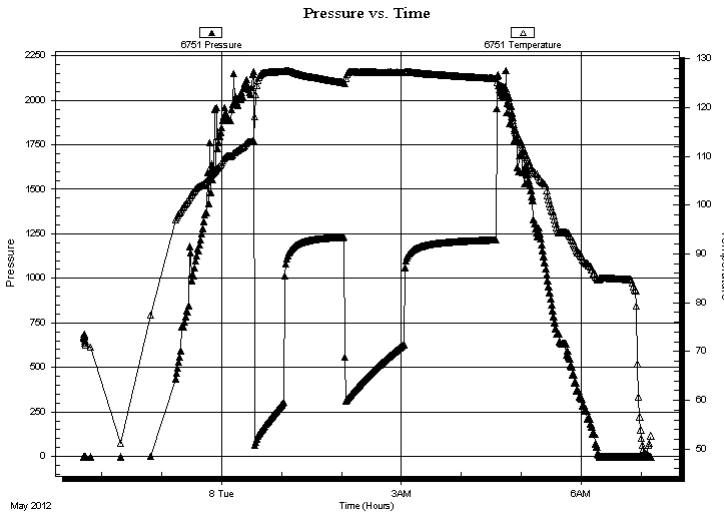
Serial #: 6751 Outside

Press @ RunDepth: **psig @ 4194.00 ft (KB)**
Start Date: **2012.05.07** End Date: **2012.05.08**
Start Time: **21:42:02** End Time: **07:09:10**

Capacity: **8000.00 psig**
Last Calib.: **2012.05.08**
Time On Btm:
Time Off Btm:

TEST COMMENT: **B.O.B. @ 7 min.**
No return.
B.O.B. @ 8 min.
No return.

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
156.00	MW 15m 85w	0.77
1134.00	W 100w Oil spots in tool.	15.70

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co.

S20-10s-34w Thomas, KS

250 N. Water Ste. 300
Wichita, KS 67202

Steele "A" #3-20

Job Ticket: 46639

DST#: 1

ATTN: Wes Hansen

Test Start: 2012.05.07 @ 21:42:00

Tool Information

Drill Pipe:	Length: 4006.00 ft	Diameter: 3.80 inches	Volume: 56.19 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 179.00 ft	Diameter: 2.25 inches	Volume: 0.88 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 57.07 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	22.50 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	4190.00 ft			Final 72000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	18.00 ft			
Tool Length:	45.50 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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

Change Over Sub	1.00			4163.50	
Shut In Tool	5.00			4168.50	
Hydraulic tool	5.00			4173.50	
Jars	5.00			4178.50	
Safety Joint	2.50			4181.00	
Packer	5.00			4186.00	27.50 Bottom Of Top Packer
Packer	4.00			4190.00	
Stubb	1.00			4191.00	
Perforations	3.00			4194.00	
Recorder	0.00	8018	Inside	4194.00	
Recorder	0.00	6751	Outside	4194.00	
Perforations	11.00			4205.00	
Bullnose	3.00			4208.00	18.00 Bottom Packers & Anchor

Total Tool Length: 45.50



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co.
250 N. Water Ste. 300
Wichita, KS 67202
ATTN: Wes Hansen

S20-10s-34w Thomas, KS
Steele "A" #3-20
Job Ticket: 46639 **DST#: 1**
Test Start: 2012.05.07 @ 21:42:00

Mud and Cushion Information

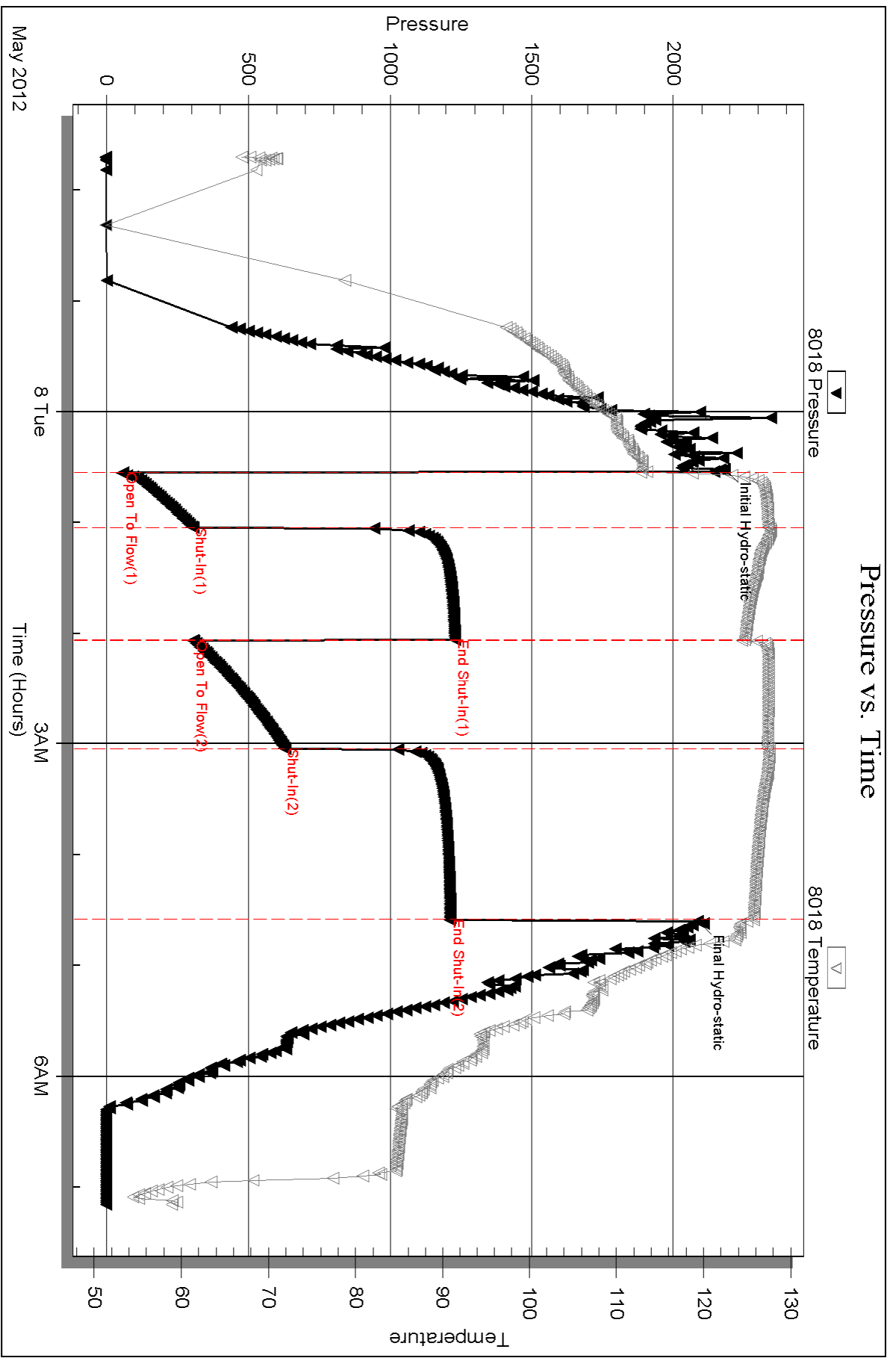
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 58000 ppm	
Viscosity: 55.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.17 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 6900.00 ppm			
Filter Cake: 2.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
156.00	MW 15m 85w	0.767
1134.00	W 100w Oil spots in tool.	15.698

Total Length: 1290.00 ft Total Volume: 16.465 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: RW:.200 @ 47 Degrees F = 58000 PPM

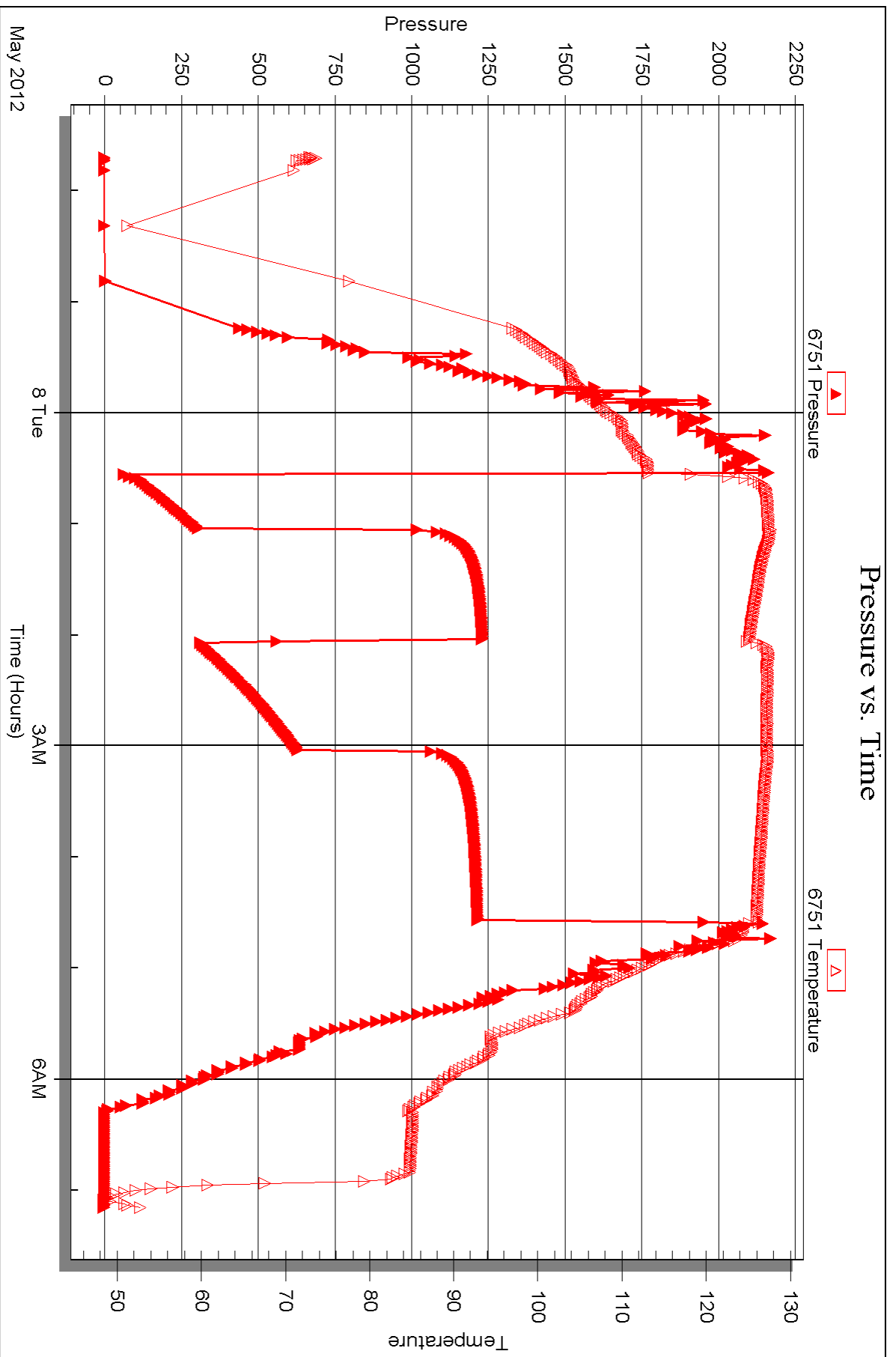


Serial #: 6751

Outside Murfin Drilling Co.

Steele "A" #3-20

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co.**

250 N. Water Ste. 300
Wichita, KS 67202

ATTN: Wes Hansen

Steele "A" #3-20

S20-10s-34w Thomas, KS

Start Date: 2012.05.08 @ 17:27:00

End Date: 2012.05.09 @ 01:58:39

Job Ticket #: 46640 DST #: 2

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

Printed: 2012.05.16 @ 09:52:57

Murfin Drilling Co. S20-10s-34w Thomas, KS Steele "A" #3-20 DST # 2 LKC "E-F" 2012.05.08



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co.
 250 N. Water Ste. 300
 Wichita, KS 67202
 ATTN: Wes Hansen

S20-10s-34w Thomas, KS
Steele "A" #3-20
 Job Ticket: 46640 **DST#: 2**
 Test Start: 2012.05.08 @ 17:27:00

GENERAL INFORMATION:

Formation: **LKC "E-F"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 19:12:20
 Time Test Ended: 01:58:39
 Interval: **4237.00 ft (KB) To 4260.00 ft (KB) (TVD)**
 Total Depth: 4260.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Chuck Smith
 Unit No: 37
 Reference Elevations: 3248.00 ft (KB)
 3237.00 ft (CF)
 KB to GR/CF: 11.00 ft

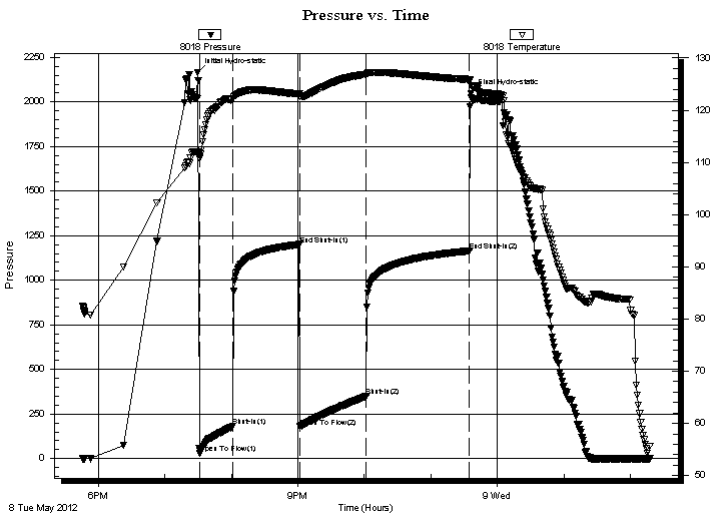
Serial #: 8018

Inside

Press @ Run Depth: 348.96 psig @ 4241.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.05.08 End Date: 2012.05.09 Last Calib.: 2012.05.09
 Start Time: 17:46:02 End Time: 02:17:40 Time On Btm: 2012.05.08 @ 19:29:30
 Time Off Btm: 2012.05.08 @ 23:36:20

TEST COMMENT: B.O.B @ 15 1/2 min.
 No return.
 B.O.B. @ 19 min.
 No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2165.64	111.99	Initial Hydro-static
2	29.59	111.33	Open To Flow (1)
32	180.25	122.17	Shut-In(1)
92	1200.46	123.10	End Shut-In(1)
93	178.21	122.60	Open To Flow (2)
153	348.96	126.88	Shut-In(2)
246	1164.37	125.88	End Shut-In(2)
247	2047.70	124.74	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
505.00	MW 5m 95w	5.45
220.00	WM 30w 70m Oil spots in tool.	3.09

* Recovery from multiple tests

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: Wes Hansen

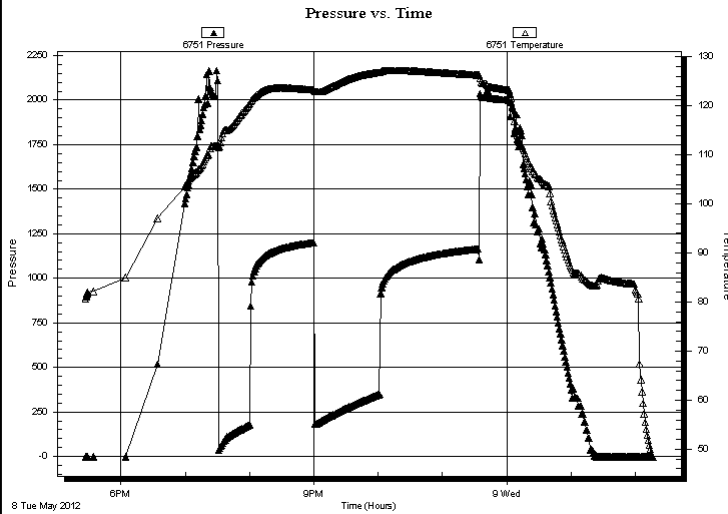
S20-10s-34w Thomas, KS
Steele "A" #3-20
 Job Ticket: 46640 **DST#: 2**
 Test Start: 2012.05.08 @ 17:27:00

GENERAL INFORMATION:

Formation: LKC "E-F"	Deviated: No Whipstock:	ft (KB)	Test Type: Conventional Bottom Hole (Reset)
Time Tool Opened: 19:12:20	Time Test Ended: 01:58:39		Tester: Chuck Smith
			Unit No: 37
Interval: 4237.00 ft (KB) To 4260.00 ft (KB) (TVD)	Reference Elevations:	3248.00 ft (KB)	
Total Depth: 4260.00 ft (KB) (TVD)		3237.00 ft (CF)	
Hole Diameter: 7.88 inches Hole Condition: Good	KB to GR/CF:	11.00 ft	

Serial #: 6751	Outside				
Press @ Run Depth: psig @	4241.00 ft (KB)	Capacity:	8000.00 psig		
Start Date: 2012.05.08	End Date: 2012.05.09	Last Calib.:	2012.05.09		
Start Time: 17:27:02	End Time: 02:17:00	Time On Btm:			
		Time Off Btm:			

TEST COMMENT: B.O.B @ 15 1/2 min.
 No return.
 B.O.B. @ 19 min.
 No return.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
505.00	MW 5m 95w	5.45
220.00	WM 30w 70m Oil spots in tool.	3.09

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co.

S20-10s-34w Thomas, KS

250 N. Water Ste. 300
Wichita, KS 67202

Steele "A" #3-20

Job Ticket: 46640

DST#: 2

ATTN: Wes Hansen

Test Start: 2012.05.08 @ 17:27:00

Tool Information

Drill Pipe:	Length: 4040.00 ft	Diameter: 3.80 inches	Volume: 56.67 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 179.00 ft	Diameter: 2.25 inches	Volume: 0.88 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 57.55 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	9.50 ft			String Weight: Initial 69000.00 lb
Depth to Top Packer:	4237.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	23.00 ft			
Tool Length:	50.50 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			4210.50	
Shut In Tool	5.00			4215.50	
Hydraulic tool	5.00			4220.50	
Jars	5.00			4225.50	
Safety Joint	2.50			4228.00	
Packer	5.00			4233.00	27.50 Bottom Of Top Packer
Packer	4.00			4237.00	
Stubb	1.00			4238.00	
Perforations	3.00			4241.00	
Recorder	0.00	8018	Inside	4241.00	
Recorder	0.00	6751	Outside	4241.00	
Perforations	16.00			4257.00	
Bullnose	3.00			4260.00	23.00 Bottom Packers & Anchor

Total Tool Length: 50.50



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co.

S20-10s-34w Thomas, KS

250 N. Water Ste. 300
Wichita, KS 67202

Steele "A" #3-20

Job Ticket: 46640

DST#: 2

ATTN: Wes Hansen

Test Start: 2012.05.08 @ 17:27:00

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:

65000 ppm

Viscosity: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6900.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
505.00	MW 5m 95w	5.453
220.00	WM 30w 70m Oil spots in tool.	3.086

Total Length: 725.00 ft

Total Volume: 8.539 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8018

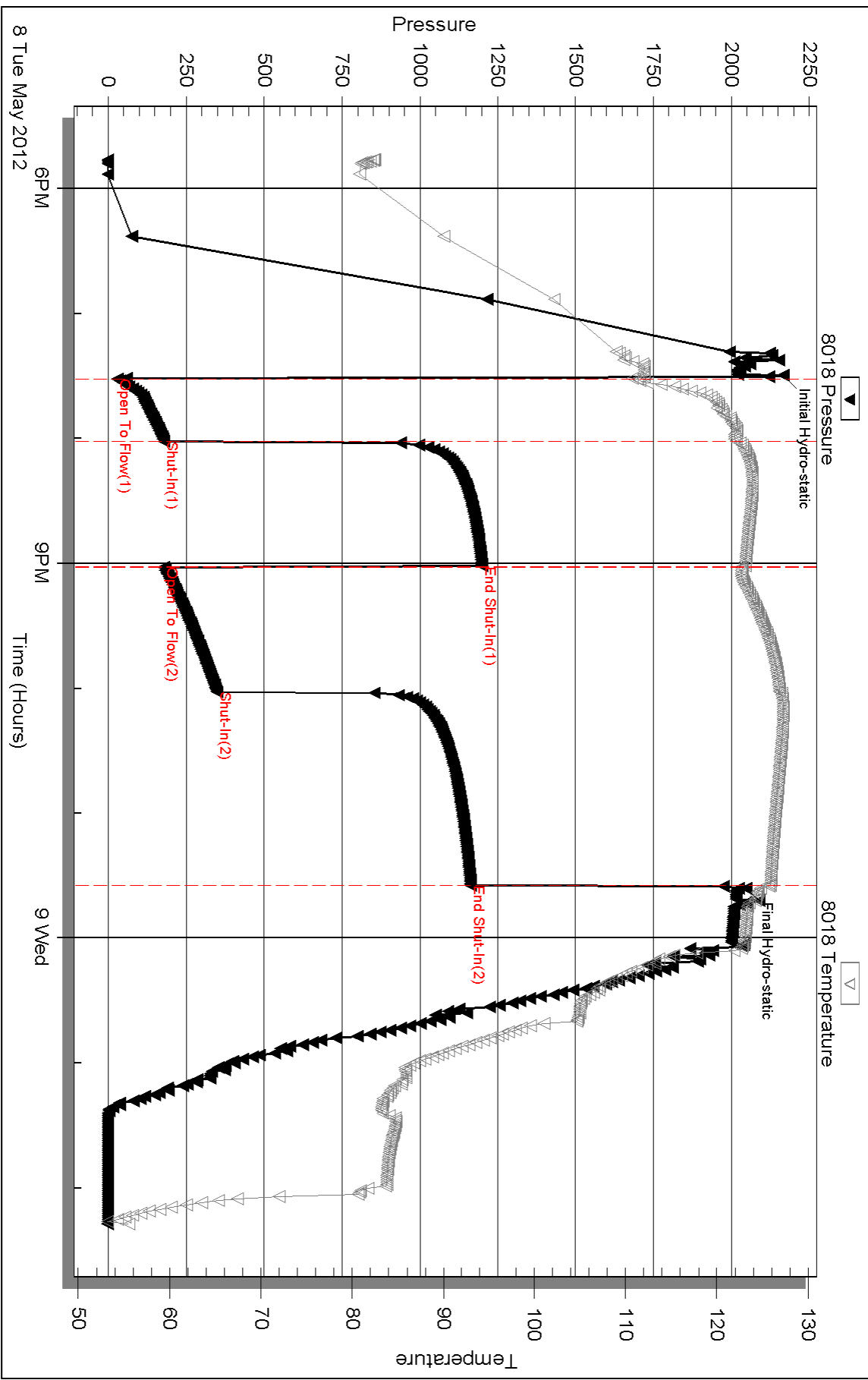
Inside

Murfin Drilling Co.

Steele "A" #3-20

DST Test Number: 2

Pressure vs. Time

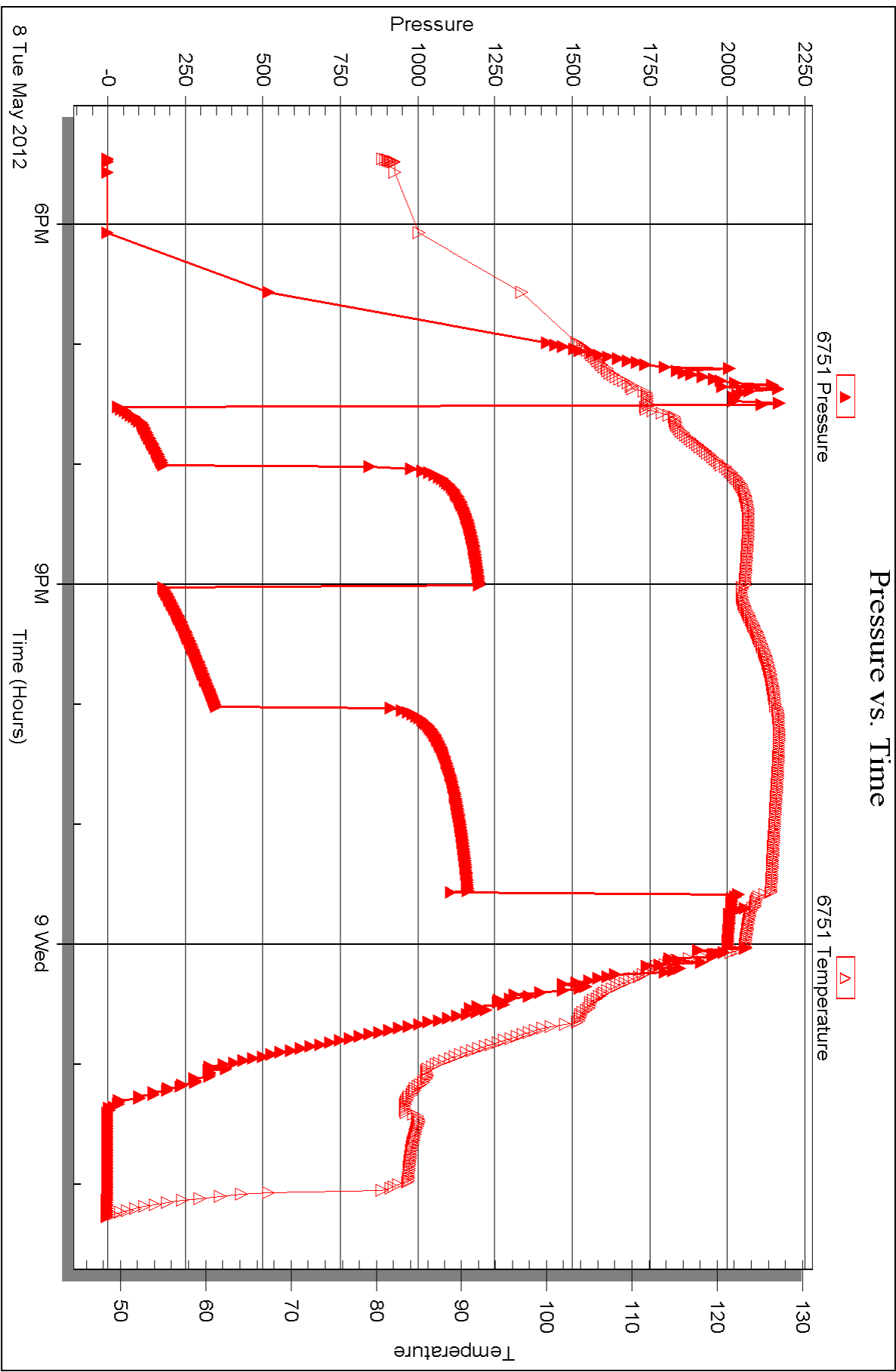


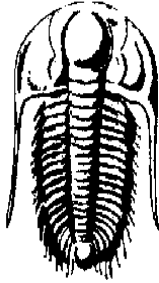
Serial #: 6751

Outside Murfin Drilling Co.

Steele "A" #3-20

DST Test Number: 2





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co.**

250 N. Water Ste. 300
Wichita, KS 67202

ATTN: Wes Hansen

Steele "A" #3-20

S20-10s-34w Thomas, KS

Start Date: 2012.05.09 @ 15:02:00

End Date: 2012.05.09 @ 23:53:49

Job Ticket #: 46641 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.05.16 @ 09:51:47

Murfin Drilling Co. S20-10s-34w Thomas, KS Steele "A" #3-20 DST # 3 LKC "H" 2012.05.09



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co.
 250 N. Water Ste. 300
 Wichita, KS 67202
 ATTN: Wes Hansen

S20-10s-34w Thomas, KS

Steele "A" #3-20

Job Ticket: 46641

DST#: 3

Test Start: 2012.05.09 @ 15:02:00

GENERAL INFORMATION:

Formation: **LKC "H"**
 Deviated: **No Whipstock:** ft (KB)
 Test Type: **Conventional Bottom Hole (Reset)**
 Time Tool Opened: 17:22:00
 Tester: **Chuck Smith**
 Time Test Ended: 23:53:49
 Unit No: **37**
Interval: 4294.00 ft (KB) To 4330.00 ft (KB) (TVD)
 Reference Elevations: **3248.00 ft (KB)**
 Total Depth: **4330.00 ft (KB) (TVD)**
3237.00 ft (CF)
 Hole Diameter: **7.88 inches** Hole Condition: **Good**
 KB to GR/CF: **11.00 ft**

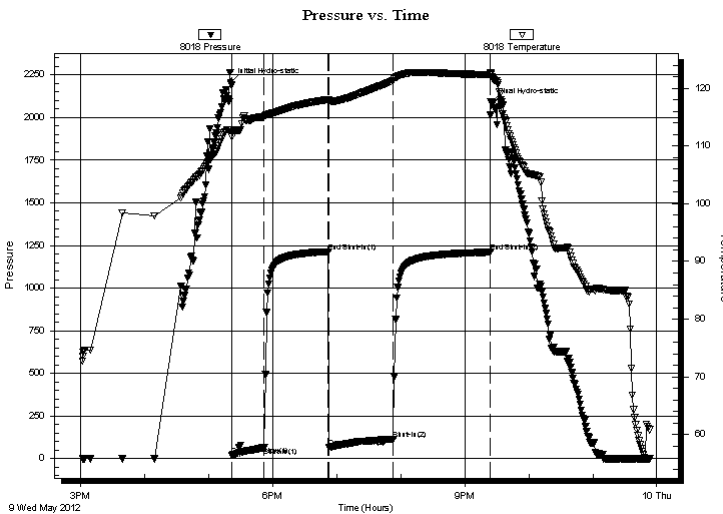
Serial #: 8018

Inside

Press @ Run Depth: 115.39 psig @ 4300.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.05.09 End Date: 2012.05.09 Last Calib.: 2012.05.10
 Start Time: 15:02:02 End Time: 23:53:49 Time On Btm: 2012.05.09 @ 17:20:40
 Time Off Btm: 2012.05.09 @ 21:24:20

TEST COMMENT: 3 1/2" Blow .
 Surface blow died @ 10 min.
 5" Blow .
 Surface return died @ 22 min.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2204.67	112.75	Initial Hydro-static
2	20.77	111.63	Open To Flow (1)
32	63.96	115.01	Shut-In(1)
92	1213.67	118.03	End Shut-In(1)
92	66.26	117.50	Open To Flow (2)
153	115.39	121.35	Shut-In(2)
244	1210.66	122.39	End Shut-In(2)
244	2090.03	122.55	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
179.00	MW 50m 50w	0.88
29.00	OSWM 20w 80m	0.41
2.00	O 100o	0.03

* Recovery from multiple tests

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: Wes Hansen

S20-10s-34w Thomas, KS
Steele "A" #3-20
Job Ticket: 46641 **DST#: 3**
Test Start: 2012.05.09 @ 15:02:00

GENERAL INFORMATION:

Formation: **LKC "H"**
Deviated: **No** Whipstock: ft (KB)
Time Tool Opened: 17:22:00
Time Test Ended: 23:53:49

Interval: 4294.00 ft (KB) To 4330.00 ft (KB) (TVD)
Total Depth: 4330.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole (Reset)
Tester: Chuck Smith
Unit No: 37

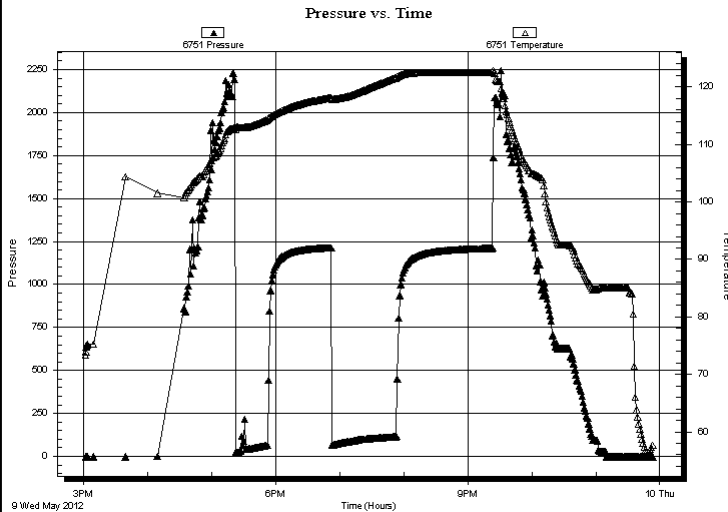
Reference Elevations: 3248.00 ft (KB)
3237.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 6751 Outside

Press @ Run Depth: psig @ 4300.00 ft (KB)
Start Date: 2012.05.09 End Date:
Start Time: 15:02:02 End Time:

Capacity: 8000.00 psig
Last Calib.: 2012.05.10
Time On Btm:
Time Off Btm:

TEST COMMENT: 3 1/2" Blow .
Surface blow died @ 10 min.
5" Blow .
Surface return died @ 22 min.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
179.00	MW 50m 50w	0.88
29.00	OSWM 20w 80m	0.41
2.00	O 100o	0.03

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co.
250 N. Water Ste. 300
Wichita, KS 67202
ATTN: Wes Hansen

S20-10s-34w Thomas, KS
Steele "A" #3-20
Job Ticket: 46641 **DST#: 3**
Test Start: 2012.05.09 @ 15:02:00

Tool Information

Drill Pipe:	Length: 4102.00 ft	Diameter: 3.80 inches	Volume: 57.54 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 179.00 ft	Diameter: 2.25 inches	Volume: 0.88 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 58.42 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	14.50 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4294.00 ft			Final 71000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	36.00 ft			
Tool Length:	63.50 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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

Change Over Sub	1.00			4267.50	
Shut In Tool	5.00			4272.50	
Hydraulic tool	5.00			4277.50	
Jars	5.00			4282.50	
Safety Joint	2.50			4285.00	
Packer	5.00			4290.00	27.50 Bottom Of Top Packer
Packer	4.00			4294.00	
Stubb	1.00			4295.00	
Perforations	5.00			4300.00	
Recorder	0.00	8018	Inside	4300.00	
Recorder	0.00	6751	Outside	4300.00	
Perforations	27.00			4327.00	
Bullnose	3.00			4330.00	36.00 Bottom Packers & Anchor

Total Tool Length: 63.50



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co.

S20-10s-34w Thomas, KS

250 N. Water Ste. 300
Wichita, KS 67202

Steele "A" #3-20

Job Ticket: 46641

DST#: 3

ATTN: Wes Hansen

Test Start: 2012.05.09 @ 15:02:00

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:

40000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.38 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 9000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
179.00	MW 50m 50w	0.880
29.00	OSWM 20w 80m	0.407
2.00	O 100o	0.028

Total Length: 210.00 ft Total Volume: 1.315 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW:.261 @ 51 Degrees F = 40000 PPM

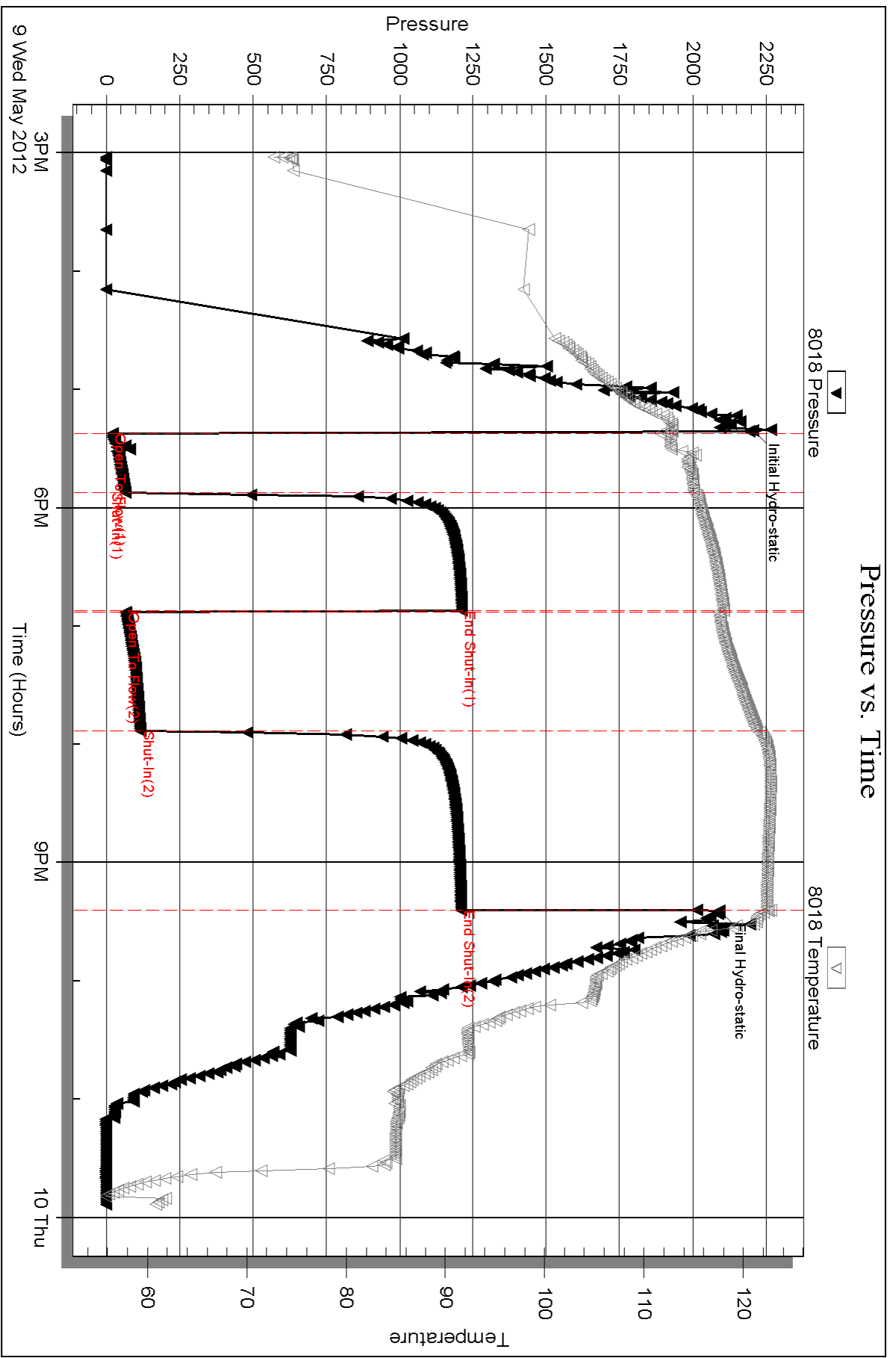
Serial #: 8018

Inside

Murfin Drilling Co.

Steele "A" #3-20

DST Test Number: 3

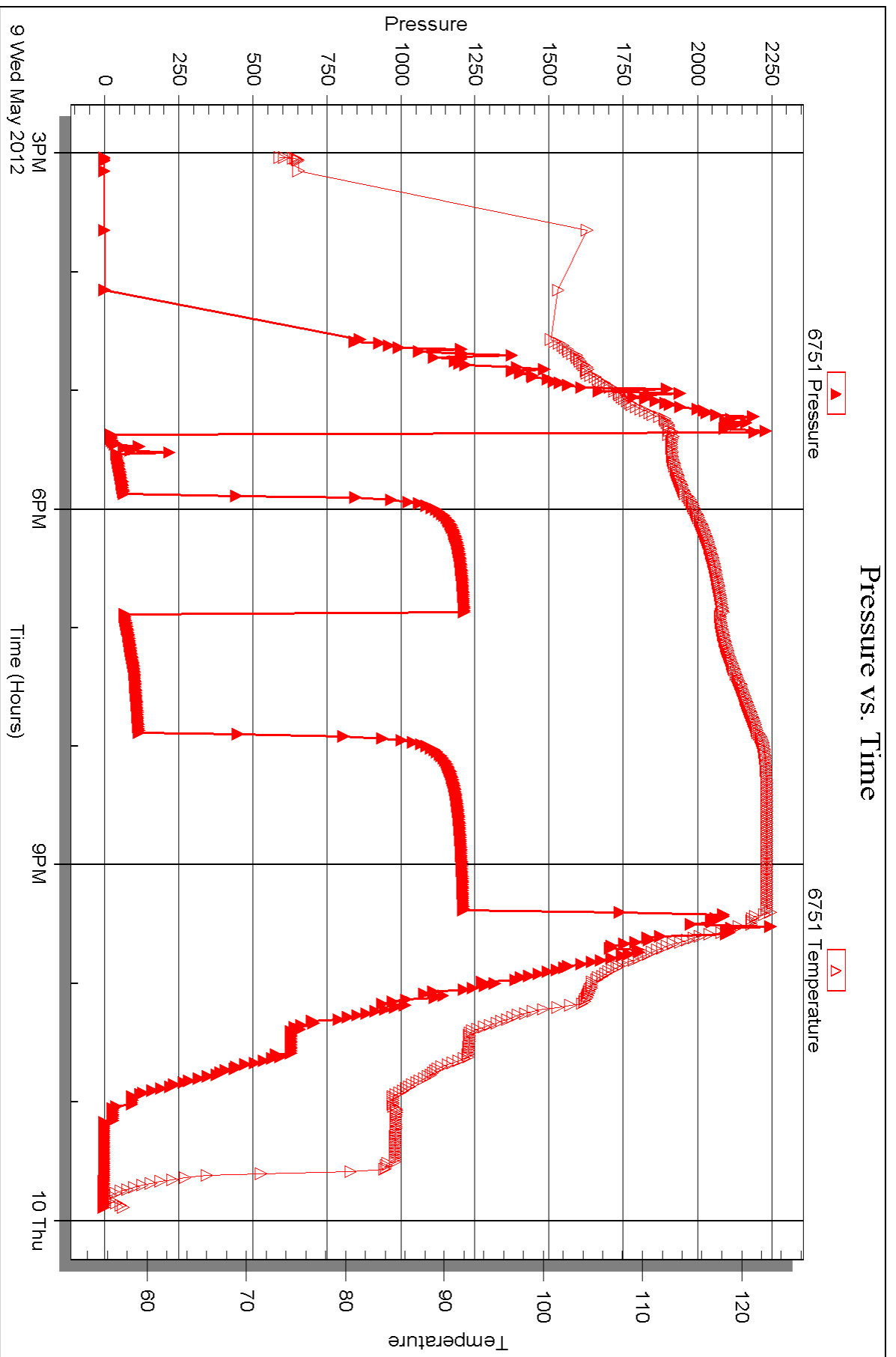


Serial #: 6751

Outside Murfin Drilling Co.

Steele "A" #3-20

DST Test Number: 3





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co.**

250 N. Water Ste. 300
Wichita, KS 67202

ATTN: Wes Hansen

Steele "A" #3-20

S20-10s-34w Thomas, KS

Start Date: 2012.05.10 @ 17:39:00

End Date: 2012.05.11 @ 02:58:10

Job Ticket #: 46642 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.05.16 @ 09:50:50

Murfin Drilling Co. S20-10s-34w Thomas, KS Steele "A" #3-20 DST # 4 LKC "I-J-K" 2012.05.10



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co.
250 N. Water Ste. 300
Wichita, KS 67202
ATTN: Wes Hansen

S20-10s-34w Thomas, KS
Steele "A" #3-20
Job Ticket: 46642 **DST#: 4**
Test Start: 2012.05.10 @ 17:39:00

GENERAL INFORMATION:

Formation: **LKC "I-J-K"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 20:48:30
Time Test Ended: 02:58:10
Interval: **4334.00 ft (KB) To 4413.00 ft (KB) (TVD)**
Total Depth: 4413.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Reset)
Tester: Chuck Smith
Unit No: 37
Reference Elevations: 3248.00 ft (KB)
3237.00 ft (CF)
KB to GR/CF: 11.00 ft

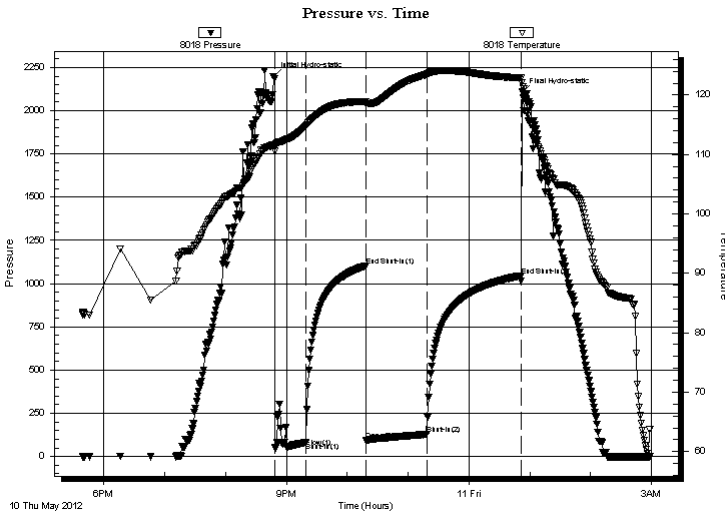
Serial #: 8018

Inside

Press @ Run Depth: 128.89 psig @ 4340.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2012.05.10 End Date: 2012.05.11 Last Calib.: 2012.05.11
Start Time: 17:39:02 End Time: 02:58:10 Time On Btm: 2012.05.10 @ 20:47:10
Time Off Btm: 2012.05.11 @ 00:52:10

TEST COMMENT: 5" Blow .
No return.
5" Blow .
No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2197.13	111.52	Initial Hydro-static
2	55.52	110.55	Open To Flow (1)
32	82.98	114.77	Shut-In(1)
91	1103.87	118.94	End Shut-In(1)
92	91.64	118.58	Open To Flow (2)
152	128.89	123.45	Shut-In(2)
244	1046.16	122.86	End Shut-In(2)
245	2106.71	122.12	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
179.00	OSMW 45m 55w	0.88
61.00	OSWM 40w 60m	0.86

* Recovery from multiple tests

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: Wes Hansen

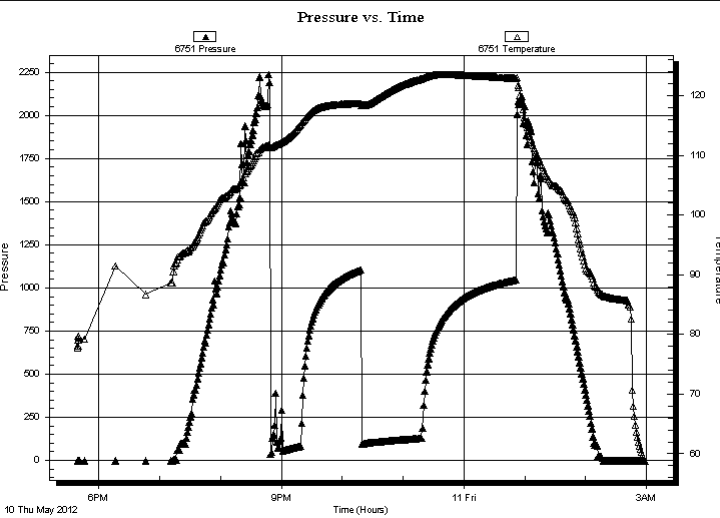
S20-10s-34w Thomas, KS
Steele "A" #3-20
Job Ticket: 46642 **DST#: 4**
Test Start: 2012.05.10 @ 17:39:00

GENERAL INFORMATION:

Formation:	LKC "I-J-K"				
Deviated:	No Whipstock:	ft (KB)		Test Type:	Conventional Bottom Hole (Reset)
Time Tool Opened:	20:48:30			Tester:	Chuck Smith
Time Test Ended:	02:58:10			Unit No:	37
Interval:	4334.00 ft (KB) To 4413.00 ft (KB) (TVD)			Reference Elevations:	3248.00 ft (KB)
Total Depth:	4413.00 ft (KB) (TVD)				3237.00 ft (CF)
Hole Diameter:	7.88 inches	Hole Condition: Good		KB to GR/CF:	11.00 ft

Serial #: 6751	Outside				
Press @ Run Depth:	psig @ 4340.00 ft (KB)	Capacity:	8000.00 psig		
Start Date:	2012.05.10	End Date:	2012.05.11	Last Calib.:	2012.05.11
Start Time:	17:39:02	End Time:	02:58:19	Time On Btm:	
				Time Off Btm:	

TEST COMMENT: 5" Blow .
No return.
5" Blow .
No return.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
179.00	OSMW 45m 55w	0.88
61.00	OSWM 40w 60m	0.86

* 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.

S20-10s-34w Thomas, KS

250 N. Water Ste. 300
Wichita, KS 67202

Steele "A" #3-20

Job Ticket: 46642

DST#: 4

ATTN: Wes Hansen

Test Start: 2012.05.10 @ 17:39:00

Tool Information

Drill Pipe:	Length: 4133.00 ft	Diameter: 3.80 inches	Volume: 57.98 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 179.00 ft	Diameter: 2.25 inches	Volume: 0.88 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 58.86 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.50 ft			String Weight: Initial 71000.00 lb
Depth to Top Packer:	4334.00 ft			Final 72000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	79.00 ft			
Tool Length:	106.50 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			4307.50	
Shut In Tool	5.00			4312.50	
Hydraulic tool	5.00			4317.50	
Jars	5.00			4322.50	
Safety Joint	2.50			4325.00	
Packer	5.00			4330.00	27.50 Bottom Of Top Packer
Packer	4.00			4334.00	
Stubb	1.00			4335.00	
Perforations	5.00			4340.00	
Recorder	0.00	8018	Inside	4340.00	
Recorder	0.00	6751	Outside	4340.00	
Perforations	5.00			4345.00	
Change Over Sub	1.00			4346.00	
Drill Pipe	63.00			4409.00	
Change Over Sub	1.00			4410.00	
Bullnose	3.00			4413.00	79.00 Bottom Packers & Anchor
Total Tool Length:	106.50				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co.

S20-10s-34w Thomas, KS

250 N. Water Ste. 300
Wichita, KS 67202

Steele "A" #3-20

Job Ticket: 46642

DST#: 4

ATTN: Wes Hansen

Test Start: 2012.05.10 @ 17:39:00

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:

50000 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 8600.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
179.00	OSMW 45m 55w	0.880
61.00	OSWM 40w 60m	0.856

Total Length: 240.00 ft Total Volume: 1.736 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW: .193 @ 55 Degrees F = 50000 PPM

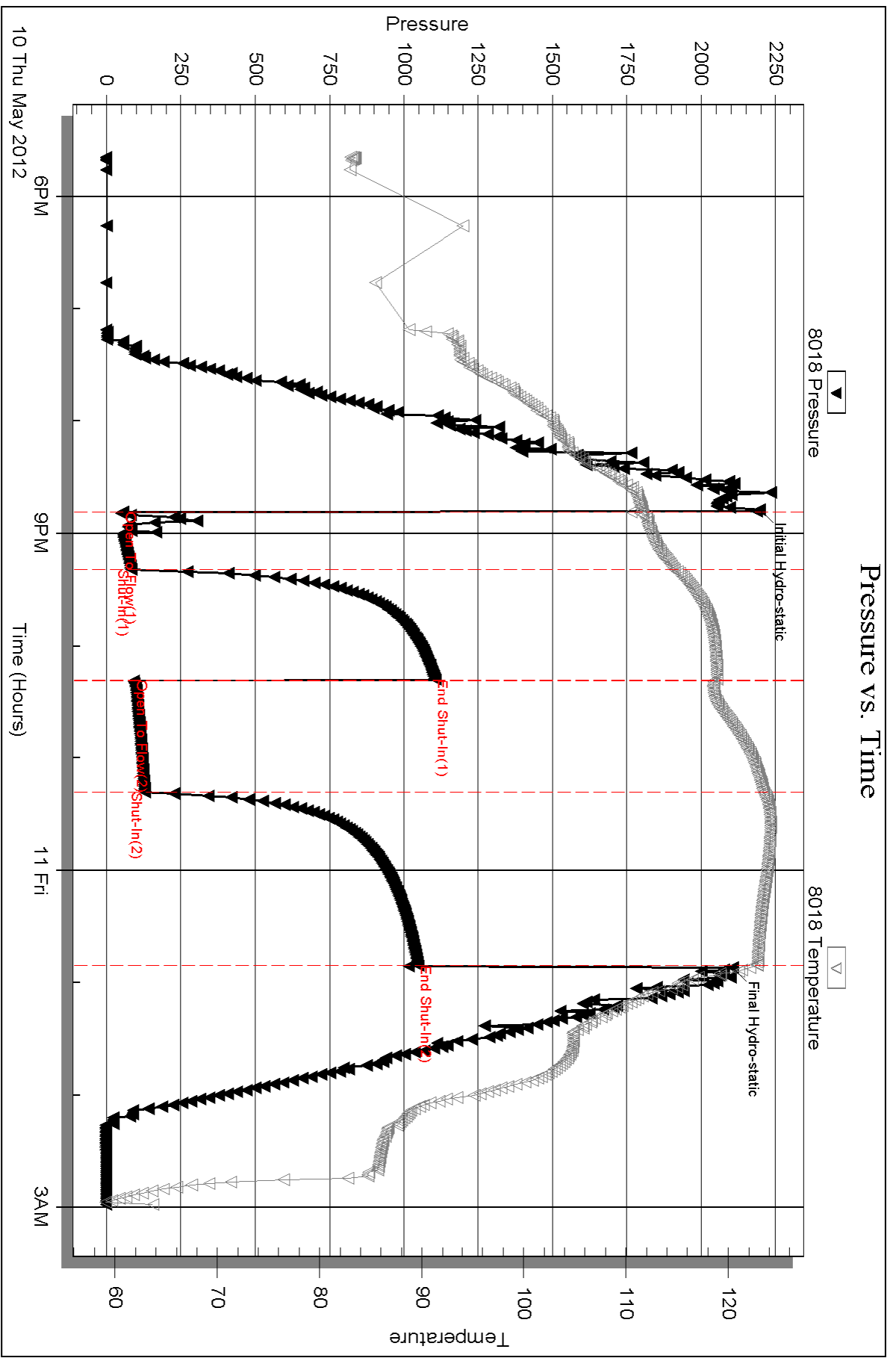
Serial #: 8018

Inside

Murfin Drilling Co.

Steele "A" #3-20

DST Test Number: 4

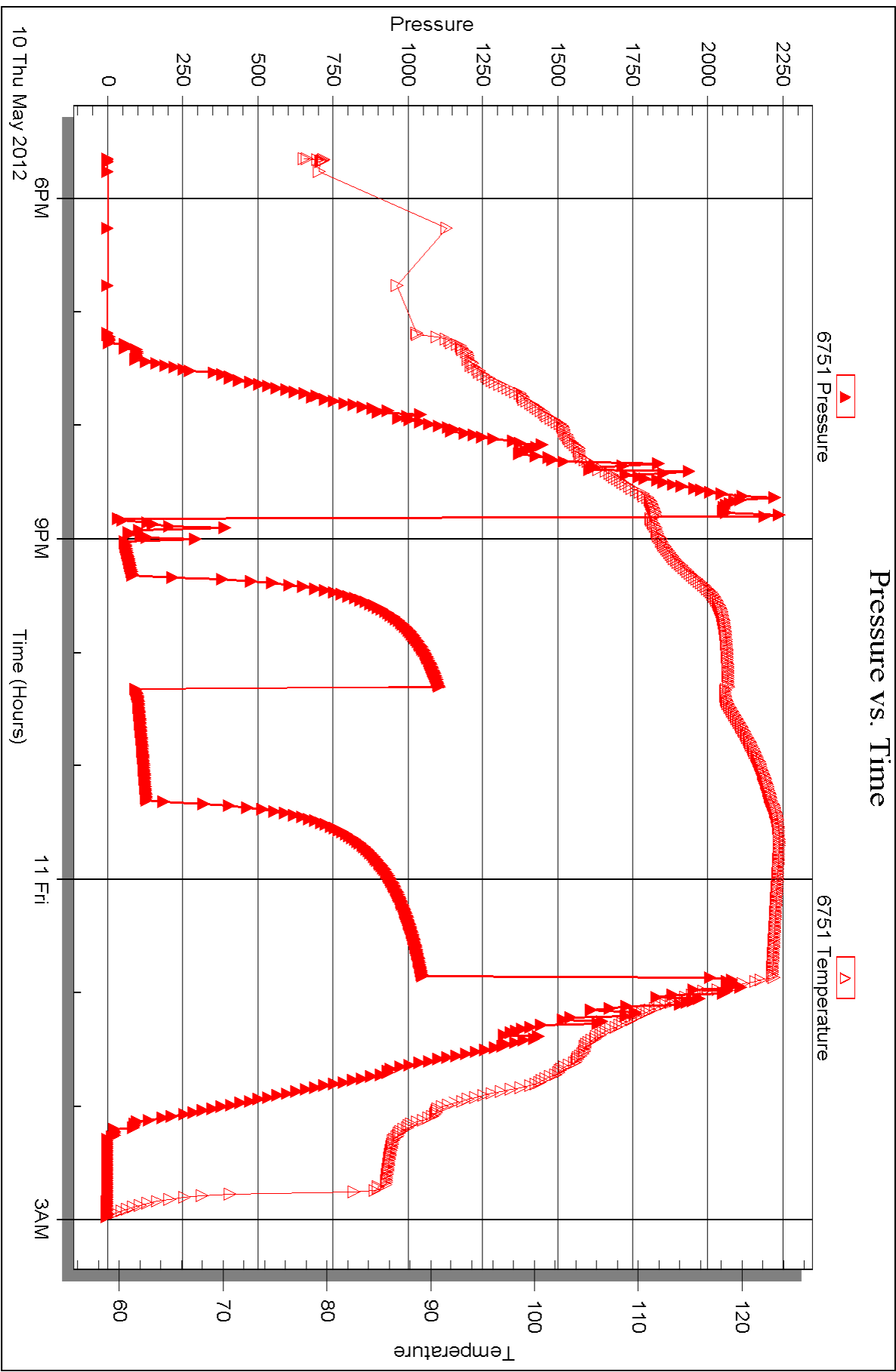


Serial #: 6751

Outside Murfin Drilling Co.

Steele "A" #3-20

DST Test Number: 4





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co.**

250 N. Water Ste. 300
Wichita, KS 67202

ATTN: Wes Hansen

Steele "A" #3-20

S20-10s-34w Thomas, KS

Start Date: 2012.05.12 @ 11:30:00

End Date: 2012.05.12 @ 18:44:00

Job Ticket #: 46643 DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.05.16 @ 09:47:28



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co.
 250 N. Water Ste. 300
 Wichita, KS 67202
 ATTN: Wes Hansen

S20-10s-34w Thomas, KS
Steele "A" #3-20
 Job Ticket: 46643 **DST#: 5**
 Test Start: 2012.05.12 @ 11:30:00

GENERAL INFORMATION:

Formation: **Myrick Station**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 13:45:10
 Time Test Ended: 18:44:00
 Interval: **4608.00 ft (KB) To 4630.00 ft (KB) (TVD)**
 Total Depth: 4630.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Chuck Smith
 Unit No: 37
 Reference Elevations: 3248.00 ft (KB)
 3237.00 ft (CF)
 KB to GR/CF: 11.00 ft

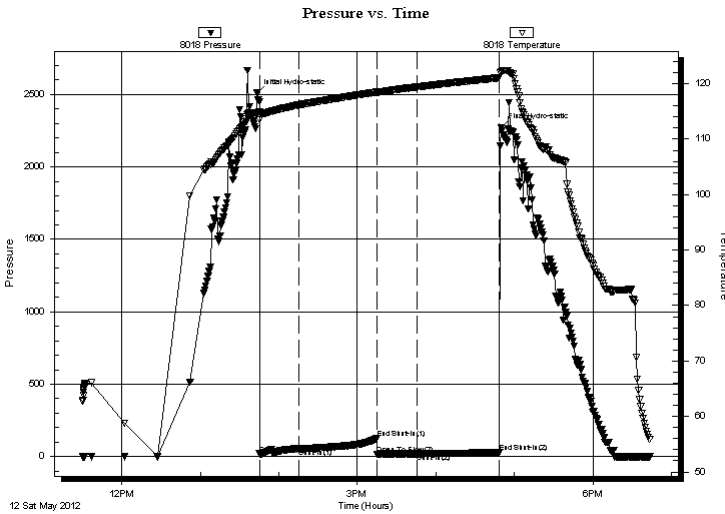
Serial #: 8018

Inside

Press @ Run Depth: 19.88 psig @ 4612.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.05.12 End Date: 2012.05.12 Last Calib.: 2012.05.12
 Start Time: 11:30:02 End Time: 18:44:00 Time On Btm: 2012.05.12 @ 13:43:20
 Time Off Btm: 2012.05.12 @ 16:49:50

TEST COMMENT: Weak surface blow died @ 12 min.
 No return.
 No return.
 No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2508.58	114.78	Initial Hydro-static
2	19.30	113.47	Open To Flow (1)
32	56.33	116.16	Shut-In(1)
92	127.63	118.52	End Shut-In(1)
92	17.53	118.44	Open To Flow (2)
122	19.88	119.40	Shut-In(2)
186	27.03	121.07	End Shut-In(2)
187	2272.20	122.20	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	M100m	0.00

* Recovery from multiple tests

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: Wes Hansen

S20-10s-34w Thomas, KS
Steele "A" #3-20
Job Ticket: 46643 **DST#: 5**
Test Start: 2012.05.12 @ 11:30:00

GENERAL INFORMATION:

Formation: **Myrick Station**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 13:45:10
Time Test Ended: 18:44:00

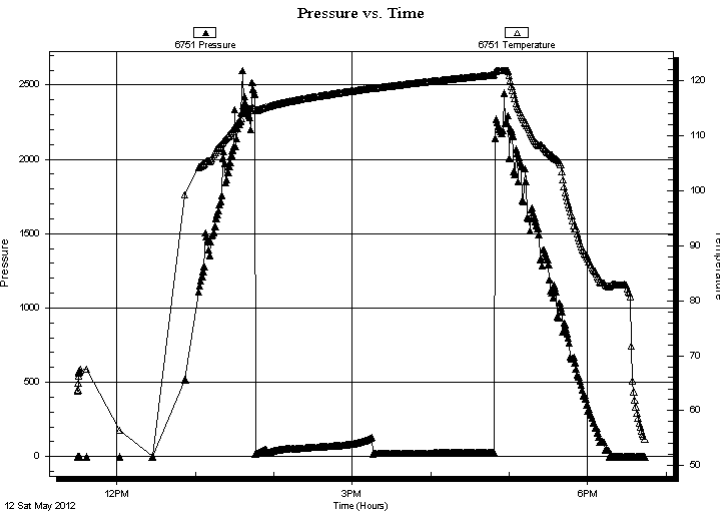
Test Type: Conventional Bottom Hole (Reset)
Tester: Chuck Smith
Unit No: 37

Interval: **4608.00 ft (KB) To 4630.00 ft (KB) (TVD)**
Total Depth: 4630.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3248.00 ft (KB)
3237.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 6751 Outside
Press @ Run Depth: psig @ 4612.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2012.05.12 End Date: 2012.05.12 Last Calib.: 2012.05.12
Start Time: 11:30:07 End Time: 18:44:05 Time On Btm:
Time Off Btm:

TEST COMMENT: Weak surface blow died @ 12 min.
No return.
No return.
No return.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
1.00	M 100m	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co.

S20-10s-34w Thomas, KS

250 N. Water Ste. 300
Wichita, KS 67202

Steele "A" #3-20

Job Ticket: 46643

DST#: 5

ATTN: Wes Hansen

Test Start: 2012.05.12 @ 11:30:00

Tool Information

Drill Pipe:	Length: 4415.00 ft	Diameter: 3.80 inches	Volume: 61.93 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 179.00 ft	Diameter: 2.25 inches	Volume: 0.88 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 62.81 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	13.50 ft			String Weight: Initial 72000.00 lb
Depth to Top Packer:	4608.00 ft			Final 72000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	22.00 ft			
Tool Length:	49.50 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			4581.50	
Shut In Tool	5.00			4586.50	
Hydraulic tool	5.00			4591.50	
Jars	5.00			4596.50	
Safety Joint	2.50			4599.00	
Packer	5.00			4604.00	27.50 Bottom Of Top Packer
Packer	4.00			4608.00	
Stubb	1.00			4609.00	
Perforations	3.00			4612.00	
Recorder	0.00	8018	Inside	4612.00	
Recorder	0.00	6751	Outside	4612.00	
Outside	15.00			4627.00	
Bullnose	3.00			4630.00	22.00 Bottom Packers & Anchor

Total Tool Length: 49.50



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co.

S20-10s-34w Thomas, KS

250 N. Water Ste. 300
Wichita, KS 67202

Steele "A" #3-20

Job Ticket: 46643

DST#: 5

ATTN: Wes Hansen

Test Start: 2012.05.12 @ 11:30:00

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:

bbbl

Water Loss: 7.17 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 10000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	M 100m	0.005

Total Length: 1.00 ft Total Volume: 0.005 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

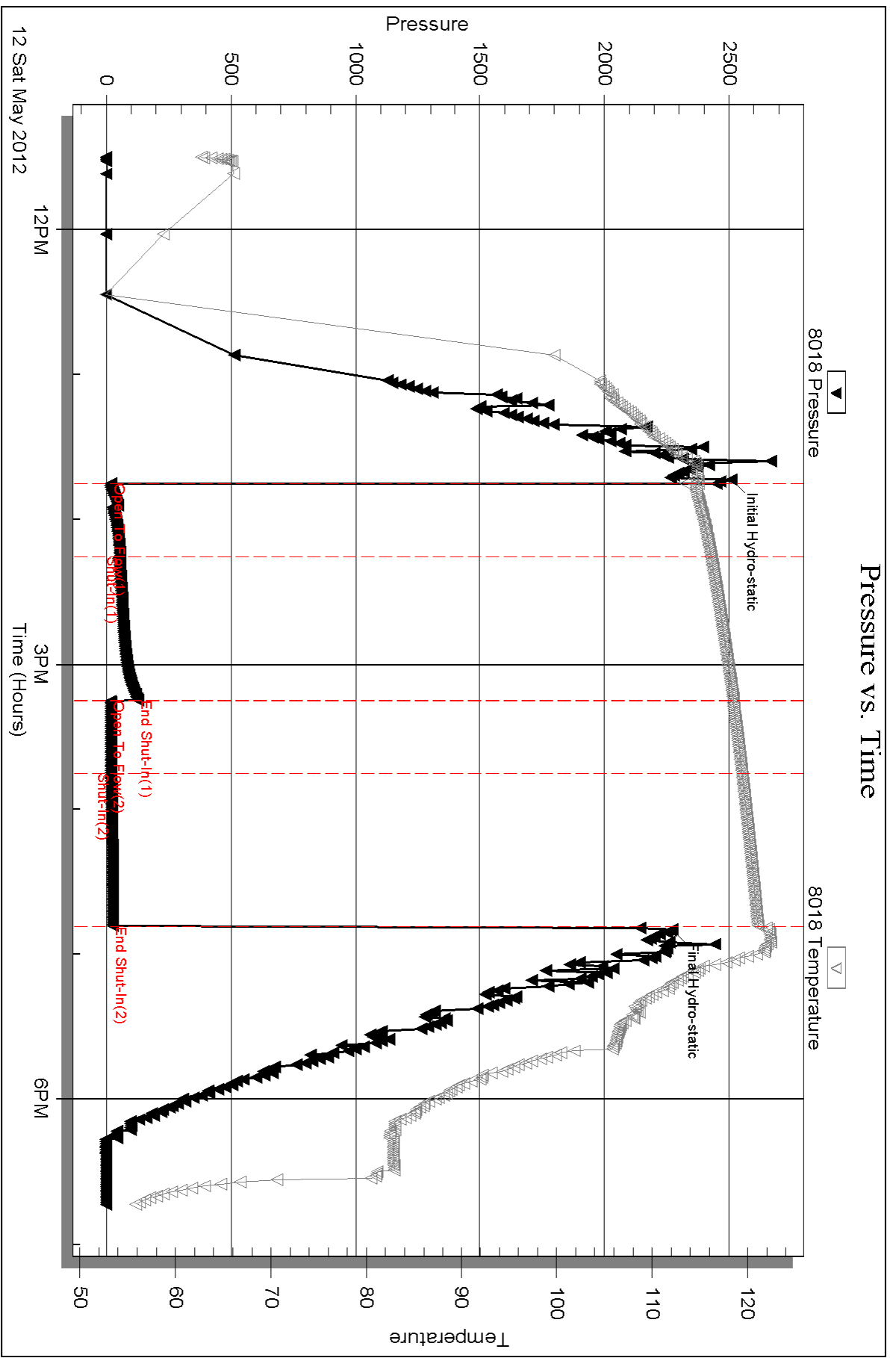
Serial #: 8018

Inside

Murfin Drilling Co.

Steele "A" #3-20

DST Test Number: 5



Triobite Testing, Inc

Ref. No: 46643

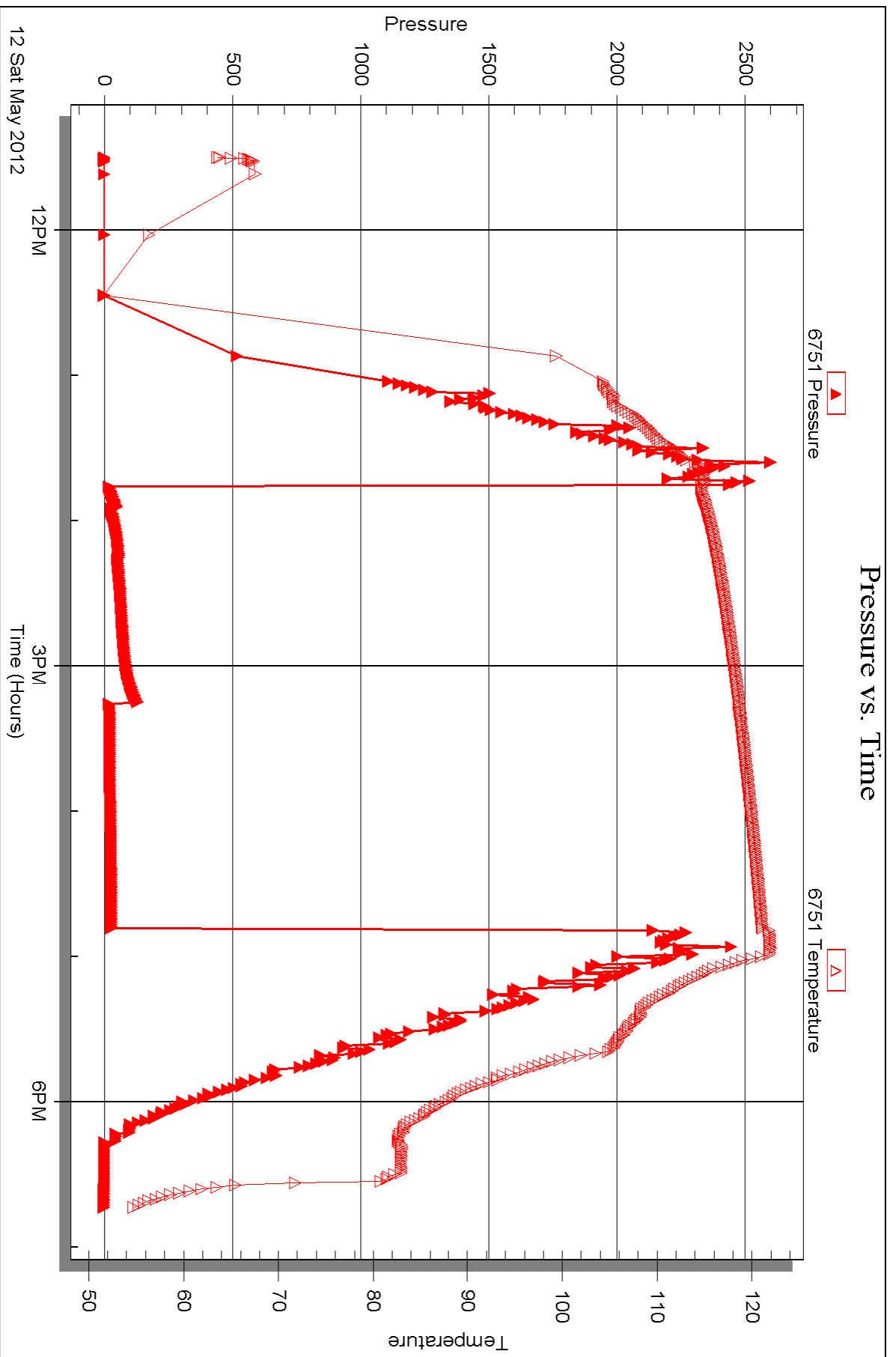
Printed: 2012.05.16 @ 09:47:30

Serial #: 6751

Outside Murfin Drilling Co.

Steele "A" #3-20

DST Test Number: 5





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co.**

250 N. Water Ste. 300
Wichita, KS 67202

ATTN: Wes Hansen

Steele "A" #3-20

S20-10s-34w Thomas, KS

Start Date: 2012.05.13 @ 13:48:00

End Date: 2012.05.13 @ 20:47:50

Job Ticket #: 46644 DST #: 6

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.05.16 @ 09:46:51



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co.
250 N. Water Ste. 300
Wichita, KS 67202
ATTN: Wes Hansen

S20-10s-34w Thomas, KS

Steele "A" #3-20

Job Ticket: 46644

DST#: 6

Test Start: 2012.05.13 @ 13:48:00

GENERAL INFORMATION:

Formation: **Johnson**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 15:53:00
 Tester: Chuck Smith
 Time Test Ended: 20:47:50
 Unit No: 37
 Interval: **4704.00 ft (KB) To 4746.00 ft (KB) (TVD)**
 Reference Elevations: 3248.00 ft (KB)
 Total Depth: 4746.00 ft (KB) (TVD)
 3237.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Good
 KB to GR/CF: 11.00 ft

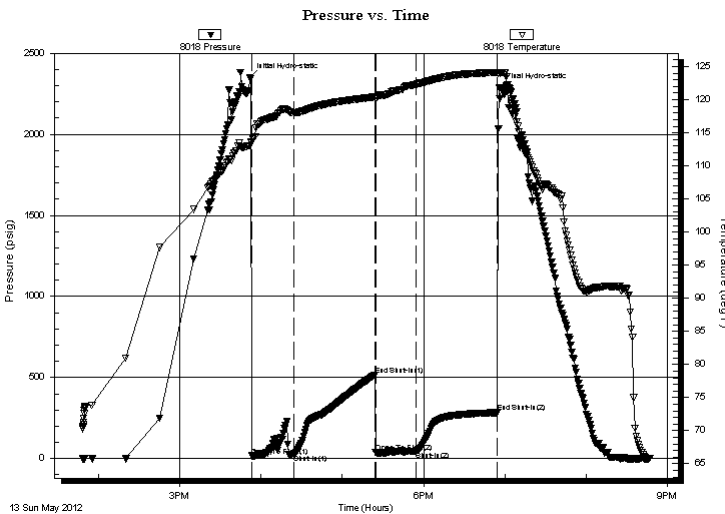
Serial #: 8018

Inside

Press @ Run Depth: 45.00 psig @ 4705.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.05.13 End Date: 2012.05.13 Last Calib.: 2012.05.13
 Start Time: 13:48:02 End Time: 20:47:49 Time On Btm: 2012.05.13 @ 15:51:20
 Time Off Btm: 2012.05.13 @ 18:55:50

TEST COMMENT: 1/2" Blow died @ 25 min.
 No return.
 No blow.
 No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2352.06	113.05	Initial Hydro-static
2	16.31	113.46	Open To Flow (1)
33	28.58	118.03	Shut-In(1)
93	516.23	120.42	End Shut-In(1)
94	38.85	120.10	Open To Flow (2)
124	45.00	122.31	Shut-In(2)
184	283.16	124.13	End Shut-In(2)
185	2289.43	123.98	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	SOCM 2o 98m	0.30

* Recovery from multiple tests

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: Wes Hansen

S20-10s-34w Thomas, KS

Steele "A" #3-20

Job Ticket: 46644 **DST#: 6**
Test Start: 2012.05.13 @ 13:48:00

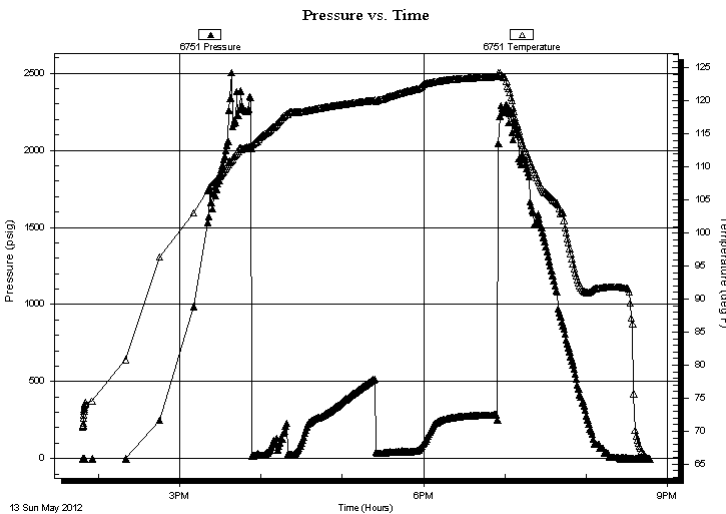
GENERAL INFORMATION:

Formation: Johnson		Test Type: Conventional Bottom Hole (Reset)
Deviated: No Whipstock: ft (KB)		Tester: Chuck Smith
Time Tool Opened: 15:53:00		Unit No: 37
Time Test Ended: 20:47:50		
Interval: 4704.00 ft (KB) To 4746.00 ft (KB) (TVD)		Reference Elevations: 3248.00 ft (KB)
Total Depth: 4746.00 ft (KB) (TVD)		3237.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Good		KB to GR/CF: 11.00 ft

Serial #: 6751	Outside			
Press @ RunDepth: psig @ 4705.00 ft (KB)		Capacity: 8000.00 psig		
Start Date: 2012.05.13	End Date: 2012.05.13	Last Calib.: 2012.05.13		
Start Time: 13:48:02	End Time: 20:47:49	Time On Btm:		
		Time Off Btm:		

TEST COMMENT: 1/2" Blow died @ 25 min.
No return.
No blow.
No return.

PRESSURE SUMMARY



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

Recovery

Gas Rates

Length (ft)	Description	Volume (bbl)
60.00	SOCM 2o 98m	0.30

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co.

S20-10s-34w Thomas, KS

250 N. Water Ste. 300
Wichita, KS 67202

Steele "A" #3-20

Job Ticket: 46644

DST#: 6

ATTN: Wes Hansen

Test Start: 2012.05.13 @ 13:48:00

Tool Information

Drill Pipe:	Length: 4509.00 ft	Diameter: 3.80 inches	Volume: 63.25 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 179.00 ft	Diameter: 2.25 inches	Volume: 0.88 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 64.13 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	11.50 ft			String Weight: Initial 74000.00 lb
Depth to Top Packer:	4704.00 ft			Final 74000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	42.00 ft			
Tool Length:	69.50 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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

Change Over Sub	1.00			4677.50	
Shut In Tool	5.00			4682.50	
Hydraulic tool	5.00			4687.50	
Jars	5.00			4692.50	
Safety Joint	2.50			4695.00	
Packer	5.00			4700.00	27.50 Bottom Of Top Packer
Packer	4.00			4704.00	
Stubb	1.00			4705.00	
Recorder	0.00	8018	Inside	4705.00	
Recorder	0.00	6751	Outside	4705.00	
Perforations	5.00			4710.00	
Change Over Sub	1.00			4711.00	
Drill Pipe	31.00			4742.00	
Change Over Sub	1.00			4743.00	
Bullnose	3.00			4746.00	42.00 Bottom Packers & Anchor

Total Tool Length: 69.50



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co.

S20-10s-34w Thomas, KS

250 N. Water Ste. 300
Wichita, KS 67202

Steele "A" #3-20

Job Ticket: 46644

DST#: 6

ATTN: Wes Hansen

Test Start: 2012.05.13 @ 13:48:00

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: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.16 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7600.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	SOCM 2o 98m	0.295

Total Length: 60.00 ft Total Volume: 0.295 bbl

Num Fluid Samples: 0

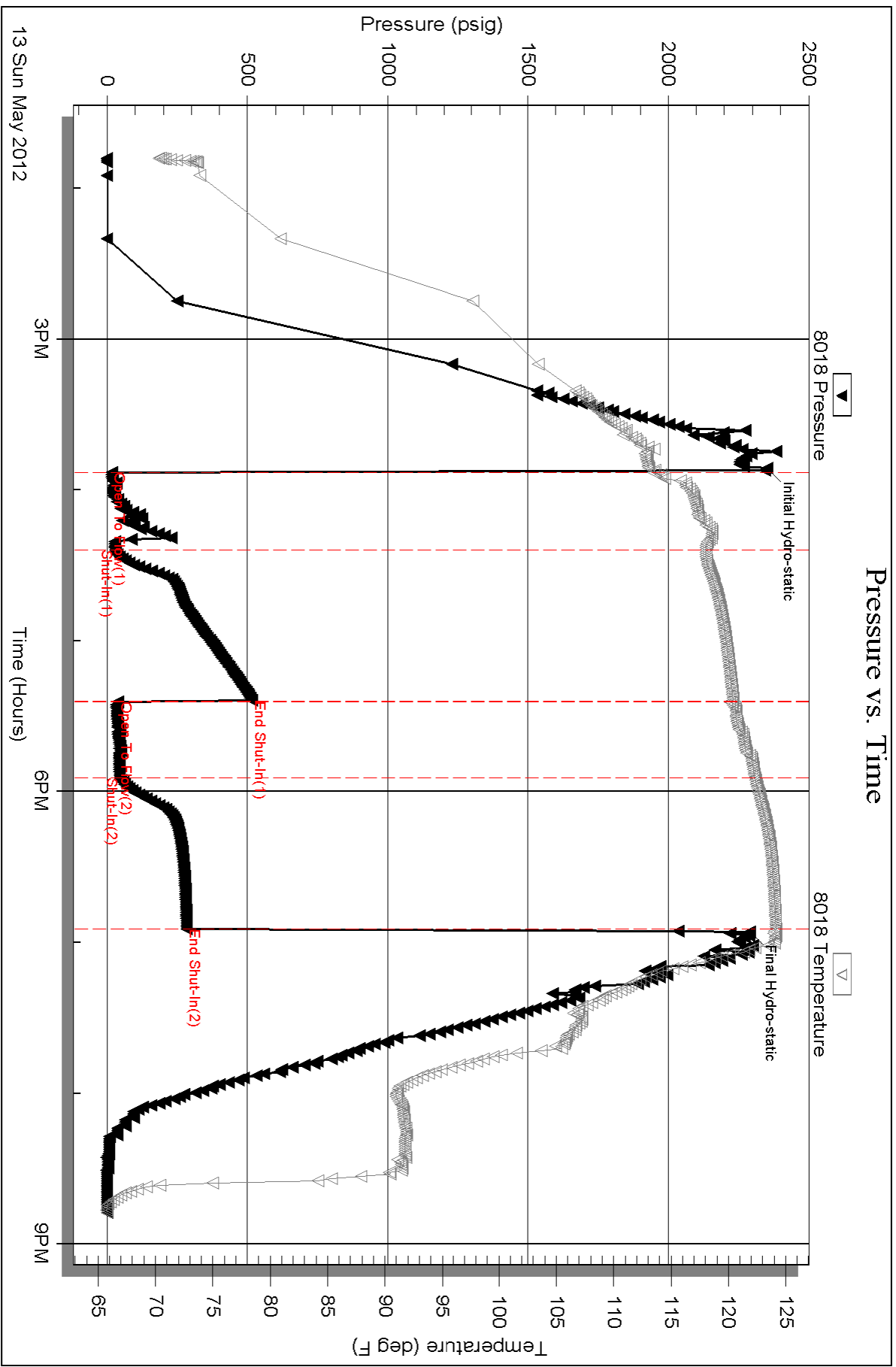
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

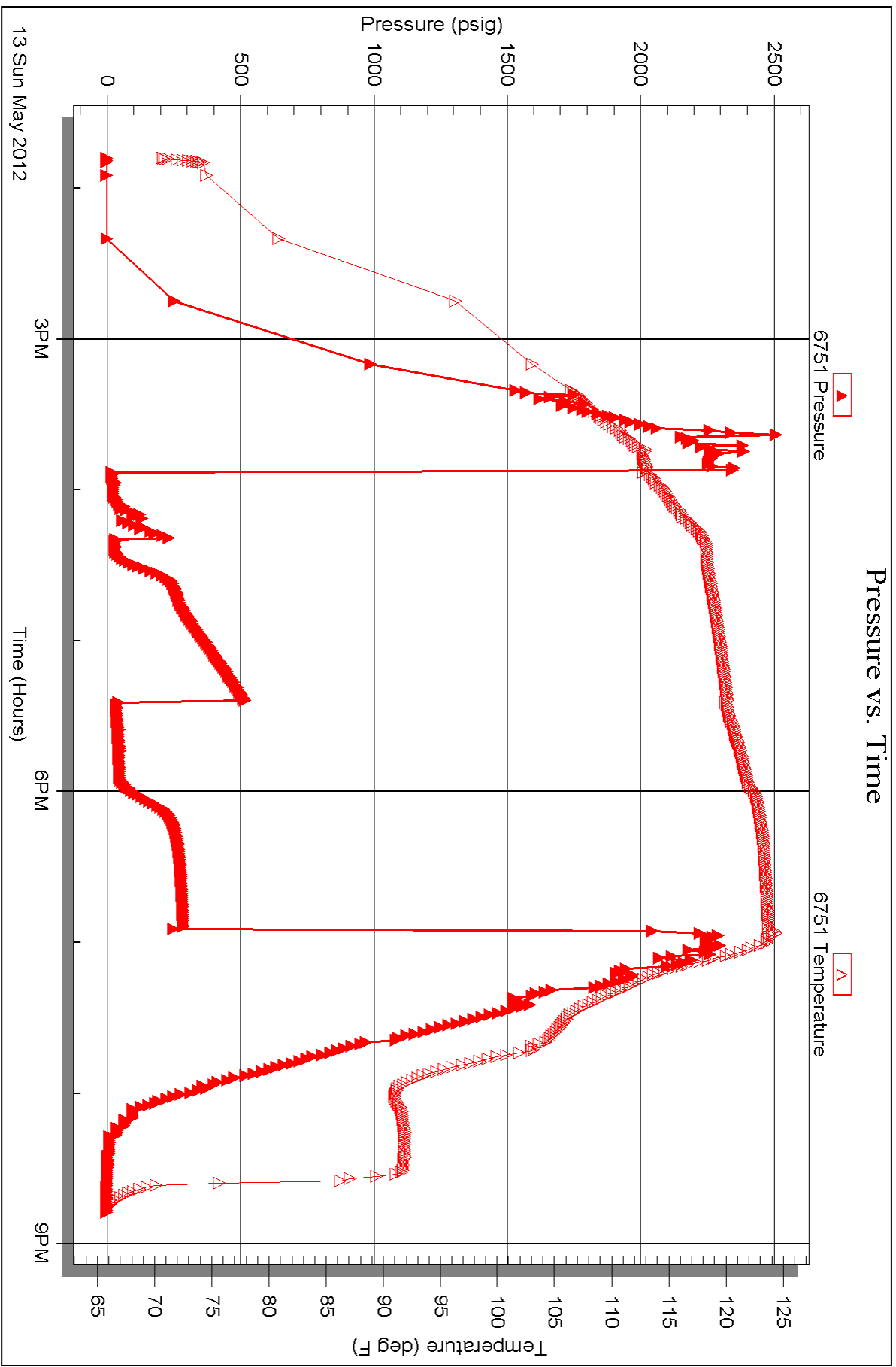


Serial #: 6751

Outside Murfin Drilling Co.

Steele "A" #3-20

DST Test Number: 6





TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 46639

4/10

Well Name & No. Steele A[#] 3-20 Test No. 1 Date 5-7-12
 Company Murfin Drilling Co. Elevation 3248 KB 3237 GL
 Address 250 N. Water Ste. 300 Wichita, KS 67202
 Co. Rep / Geo. Wes Hansen Rig MDC[#] 20
 Location: Sec. 20 Twp. 10s Rge. 34w Co. Thomas State KS

Interval Tested 4190 - 4208 Zone Tested LKC 'B'
 Anchor Length 18 Drill Pipe Run 4006 Mud Wt. 9.2
 Top Packer Depth 4186 Drill Collars Run 179 Vis 55
 Bottom Packer Depth 4190 Wt. Pipe Run 0 WL 7.2
 Total Depth 4208 Chlorides 6900 ppm System LCM 8
 Blow Description B.O.B. @ 7 min.
No return.
B.O.B. @ 8 min.
No return.

Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>156</u>	Feet of <u>MW</u>	%gas	%oil	<u>85</u> %water	<u>15</u> %mud
Rec <u>1134</u>	Feet of <u>W Oil spots in tool.</u>	%gas	%oil	<u>100</u> %water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 1290 BHT 126 Gravity - API RW .200 @ 47 °F Chlorides 58,000 ppm

(A) Initial Hydrostatic 2181 Test 1250 T-On Location 21:30
 (B) First Initial Flow 59 Jars 250 T-Started 21:42
 (C) First Final Flow 305 Safety Joint 75 T-Open 00:33
 (D) Initial Shut-In 1231 Circ Sub NIC T-Pulled 04:35
 (E) Second Initial Flow 306 Hourly Standby _____ T-Out 07:10
 (F) Second Final Flow 629 Mileage 134RT 207.70 Comments _____
 (G) Final Shut-In 1215 Sampler _____
 (H) Final Hydrostatic 2087 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1782.70
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1782.70

Approved By Wesley Hansen Our Representative Chuck Smith

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



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 46640

4/10

Well Name & No. Steele "A" #3-20 Test No. 2 Date 5-8-12
 Company Murfin Drilling Co. Elevation 3248 KB 3237 GL
 Address 250 N. Water Ste. 300 Wichita, KS 67202
 Co. Rep / Geo. Wes Hansen Rig MDC #20
 Location: Sec. 20 Twp. 10s Rge. 34w Co. Thomas State KS

Interval Tested 4237-4260 Zone Tested LKC "E-F"
 Anchor Length 23 Drill Pipe Run 4040 Mud Wt. 9.2
 Top Packer Depth 4233 Drill Collars Run 179 Vis 57
 Bottom Packer Depth 4237 Wt. Pipe Run 0 WL 6.8
 Total Depth 4260 Chlorides 6900 ppm System LCM 8
 Blow Description B.O.B. @ 15 1/2 min.
No return.
B.O.B. @ 19 min.
No return.

Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>220</u>	Feet of <u>WM</u>	%gas	%oil <u>30</u>	%water <u>70</u>	%mud
Rec <u>505</u>	Feet of <u>MW Oil spots in tool</u>	%gas	%oil <u>95</u>	%water <u>5</u>	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 725 BHT 126 Gravity - API RW .195 @ 43 °F Chlorides 65,000 ppm

(A) Initial Hydrostatic 2166 Test 1250 T-On Location 17:30
 (B) First Initial Flow 30 Jars 250 T-Started 17:27
 (C) First Final Flow 180 Safety Joint 75 T-Open 19:31
 (D) Initial Shut-In 1200 Circ Sub NIC T-Pulled 23:35
 (E) Second Initial Flow 178 Hourly Standby _____ T-Out 02:18
 (F) Second Final Flow 349 Mileage 134RT 207.70 Comments _____
 (G) Final Shut-In 1164 Sampler _____
 (H) Final Hydrostatic 2048 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Initial Open 30 Extra Recorder _____ Sub Total 0
 Initial Shut-In 60 Day Standby _____ Total 1782.70
 Final Flow 60 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 90 Sub Total 1782.70

Approved By Wesley Hansen Our Representative Chuck Smith

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



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 46641

4/10

Well Name & No. Steele "A" #3-20 Test No. 3 Date 5-9-12
 Company Murfin Drilling Co. Elevation 3248 KB 3237 GL
 Address 250 N. Water Ste. 300 Wichita, KS 67202
 Co. Rep / Geo. Wes Hansen Rig MDC #20
 Location: Sec. 20 Twp. 10s Rge. 34w Co. Thomas State KS

Interval Tested 4294 - 4330 Zone Tested LKC "H"
 Anchor Length 36 Drill Pipe Run 4102 Mud Wt. 9.1
 Top Packer Depth 4290 Drill Collars Run 179 Vis 50
 Bottom Packer Depth 4294 Wt. Pipe Run 0 WL 6.4
 Total Depth 4330 Chlorides 9000 ppm System LCM 8
 Blow Description 3 1/2" Blow.

Surface return died @ 10 min.
5" Blow.
Surface return died @ 22 min.

Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>2</u>	Feet of <u>0</u>	%gas	<u>100</u> %oil	%water	%mud
Rec <u>29</u>	Feet of <u>OSWM</u>	%gas	%oil	<u>20</u> %water	<u>80</u> %mud
Rec <u>179</u>	Feet of <u>MW</u>	%gas	%oil	<u>50</u> %water	<u>50</u> %mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 210 BHT 122 Gravity - API RW .261 @ 51 °F Chlorides 4000 ppm

(A) Initial Hydrostatic 2205 Test 1250 T-On Location 15:00
 (B) First Initial Flow 21 Jars 250 T-Started 15:02
 (C) First Final Flow 64 Safety Joint 75 T-Open 17:22
 (D) Initial Shut-In 1214 Circ Sub N/C T-Pulled 21:24
 (E) Second Initial Flow 66 Hourly Standby T-Out 23:54
 (F) Second Final Flow 115 Mileage 207.70 Comments
 (G) Final Shut-In 1211 Sampler
 (H) Final Hydrostatic 2090 Straddle Ruined Shale Packer
 Shale Packer Ruined Packer
 Extra Packer Extra Copies
 Extra Recorder Sub Total 0
 Day Standby Total 1782.70
 Accessibility MP/DST Disc't
 Sub Total 1782.70

Approved By Wesley Hansen Our Representative Chuck Smith

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



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 46642

Well Name & No. Steele "A" 3-20 Test No. 4 Date 5-10-12
 Company Murfin Drilling Co. Elevation 3248 KB 3237 GL
 Address 250 N. Water Ste. 300 Wichita, KS 67202
 Co. Rep / Geo. Wes Hansen Rig MDC #20
 Location: Sec. 20 Twp. 10s Rge. 24w Co. Thomas State KS

Interval Tested 4334-4413 Zone Tested LKC "I-J-K"
 Anchor Length 79 Drill Pipe Run 4133 Mud Wt. 9.1
 Top Packer Depth 4330 Drill Collars Run 179 Vis 55
 Bottom Packer Depth 4334 Wt. Pipe Run 0 WL 6.0
 Total Depth 4413 Chlorides 8600 ppm System LCM 8"
 Blow Description 5" Blow
No return.
5" Blow.
No return.

Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>61</u>	Feet of <u>OSWM</u>	%gas	%oil <u>40</u>	%water <u>60</u>	%mud
Rec <u>179</u>	Feet of <u>OSMW</u>	%gas	%oil <u>55</u>	%water <u>45</u>	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 240 BHT 123 Gravity — API RW .193 @ 55 °F Chlorides 50,000 ppm

(A) Initial Hydrostatic 2197 Test 1250 T-On Location 17:30
 (B) First Initial Flow 56 Jars 250 T-Started 17:39
 (C) First Final Flow 83 Safety Joint 75 T-Open 20:49
 (D) Initial Shut-In 1104 Circ Sub NIC T-Pulled 00:51
 (E) Second Initial Flow 92 Hourly Standby T-Out 02:58
 (F) Second Final Flow 129 Mileage 207.70
 (G) Final Shut-In 1046 Sampler
 (H) Final Hydrostatic 2107 Straddle Ruined Shale Packer
 Shale Packer Ruined Packer
 Extra Packer Extra Copies
 Extra Recorder Sub Total 0
 Day Standby Total 1782.70
 Accessibility MP/DST Disc't
 Sub Total 1782.70

Approved By Wesley Hansen Our Representative Chuck Smith

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



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 46643

4/10

Well Name & No. Steel A #3-20 Test No. 5 Date 5-12-12
 Company Musfin Drilling Co. Elevation 3248 KB 3237 GL
 Address 250 N. Water Stc. 300 Wichita, Ks 67202
 Co. Rep / Geo. Wes Hansen Rig MDC# 20
 Location: Sec. 20 Twp. 10s Rge. 24w Co. Thomas State Ks

Interval Tested 4608-4630 Zone Tested Myrick Station
 Anchor Length 22 Drill Pipe Run 4415 Mud Wt. 9.2
 Top Packer Depth 4604 Drill Collars Run 179 Vis 60
 Bottom Packer Depth 4608 Wt. Pipe Run 0 WL 7.2
 Total Depth 4630 Chlorides 10,000 ppm System LCM 8
 Blow Description B. Weak surface blow died @ 12 min.
No return.
No blow.
No return.

Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>1</u>	Feet of <u>M</u>			%water <u>100</u>	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 1 BHT 121 Gravity - API RW @ - °F Chlorides - ppm

(A) Initial Hydrostatic <u>2509</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>10:30</u>
(B) First Initial Flow <u>19</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>11:30</u>
(C) First Final Flow <u>56</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>13:45</u>
(D) Initial Shut-In <u>128</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>16:49</u>
(E) Second Initial Flow <u>18</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>18:44</u>
(F) Second Final Flow <u>20</u>	<input checked="" type="checkbox"/> Mileage <u>207.70</u>	Comments
(G) Final Shut-In <u>27</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2272</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In <u>60</u>	<input checked="" type="checkbox"/> Day Standby <u>6 1/2</u> 216.67	Total <u>1999.37</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1999.37</u>	

Approved By Wesley Hansen Our Representative Chuck Smith

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



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. **46644**

4/10

Well Name & No. Steele "A" #3-20 Test No. 6 Date 5-13-12
 Company Murfin Drilling Co. Elevation 3248 KB 3237 GL
 Address 250 N. Water Ste. 300 Wichita, KS 67202
 Co. Rep / Geo. Wes Hansen Rig MDC #20
 Location: Sec. 20 Twp. 10s Rge. 24w Co. Thomas State KS

Interval Tested 4704-4746 Zone Tested Johnson
 Anchor Length 42 Drill Pipe Run 4509 Mud Wt. 9.2
 Top Packer Depth 4700 Drill Collars Run 179 Vis 55
 Bottom Packer Depth 4704 Wt. Pipe Run 0 WL 7.2
 Total Depth 4746 Chlorides 7600 ppm System LCM 8
 Blow Description 1/2" Blow
No return.
No blow.
No return.

Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>60</u>	Feet of <u>50cm</u>	%gas	<u>2</u> %oil	%water	<u>98</u> %mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 60 BHT 124 Gravity - API RW @ - °F Chlorides - ppm

(A) Initial Hydrostatic <u>2352</u>	<input checked="" type="checkbox"/> Test 1250	T-On Location <u>13:45</u>
(B) First Initial Flow <u>16</u>	<input checked="" type="checkbox"/> Jars 2550	T-Started <u>13:48</u>
(C) First Final Flow <u>29</u>	<input checked="" type="checkbox"/> Safety Joint 75	T-Open <u>15:53</u>
(D) Initial Shut-In <u>516</u>	<input checked="" type="checkbox"/> Circ Sub <u>NIC</u>	T-Pulled <u>18:55</u>
(E) Second Initial Flow <u>39</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>20:48</u>
(F) Second Final Flow <u>45</u>	<input checked="" type="checkbox"/> Mileage 207.70	Comments
(G) Final Shut-In <u>283</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2289</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby	Total <u>1782.70</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1782.70</u>	

Approved By Wesley Hansen

Our Representative Chuck Smith

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.



Orat. Light.

INVOICE

PO Box 93999
Southlake, TX 76092

Invoice Number: 131058

Invoice Date: May 2, 2012

Voice: (817) 546-7282

Page: 1

Fax: (817) 246-3361

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

OPERATOR PAY MDC
LEASE: Steele A 3-20
pm



Customer ID	Well Name# or Customer P.O.	Payment Terms	
Murfin	Steele # 3-20	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	May 2, 2012	6/1/12

Quantity	Item	Description	Unit Price	Amount
200.00	MAT	Class A Common	16.25	3,250.00
7.00	MAT	Chloride	58.20	407.40
210.00	SER	Handling	2.10	441.00
21.00	SER	Ton Miles	22.75	477.81
1.00	SER	Surface ✓	1,125.00	1,125.00
21.00	SER	Heavy Vehicle Mileage	7.00	147.00
21.00	SER	Light Vehicle Mileage	4.00	84.00
1.00	CEMENTER	Alan Ryan		
1.00	EQUIP OPER	Wayne McGhghy		
1.00	OPER ASSIST	Chris Helpingstine		

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

\$2076.27

ONLY IF PAID ON OR BEFORE
May 27, 2012

Subtotal	5,932.21
Sales Tax	266.99
Total Invoice Amount	6,199.20
Payment/Credit Applied	
TOTAL	6,199.20

OKM

Deduct

[Signature]

ALLIED CEMENTING CO., LLC.

035388

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:

DATE <u>5/2/12</u>	SEC <u>20</u>	TWP. <u>10</u>	RANGE <u>34</u>	CALLED OUT	ON LOCATION <u>10/30/12</u>	JOB START <u>7:30am</u>	JOB FINISH <u>3:00pm</u>
LEASE <u>Steele A</u>		WELL# <u>3-20</u>	LOCATION <u>State Monument 2 1/2 N 70</u>			COUNTY <u>Thomas</u>	STATE <u>KS</u>
OLD OR NEW (Circle one)			RD W to Rd 17 1/2 S W - N rd to				

CONTRACTOR <u>McFIN 20</u>	OWNER <u>Same</u>
TYPE OF JOB <u>Surface</u>	CEMENT
HOLE SIZE <u>10 1/4</u>	T.D. <u>268</u>
CASING SIZE <u>8 3/8</u>	DEPTH <u>268</u>
TUBING SIZE	AMOUNT ORDERED <u>200 Com 392 CC</u>
DRILL PIPE	
TOOL	
PRES. MAX	COMMON <u>200</u> @ <u>6 1/2</u> 3250 ⁰⁰
MEAS. LINE	POZMIX @
CEMENT LEFT IN CSG. <u>15 FT</u>	GEL @
PERFS.	CHLORIDE <u>7</u> @ <u>58 20</u> 407 ⁴⁰
DISPLACEMENT <u>16-11 1/2 BBL 160</u>	ASC @

EQUIPMENT

PUMP TRUCK	CEMENTER <u>Ala</u>
# <u>422</u>	HELPER <u>Wayne</u>
BULK TRUCK	
# <u>390</u>	DRIVER <u>Chris</u>
BULK TRUCK	
#	DRIVER

HANDLING <u>210 CF</u>	@ <u>2 10</u>	<u>441 ⁰⁰</u>
MILEAGE <u>2 1/2 mi</u>	@ <u>9.687 mi</u>	<u>477 ⁸¹</u>
TOTAL	<u>4576 ²¹</u>	

REMARKS:

Run Cg, Circulate, Mix Cement, Displace Cement.

Cement did NOT circulate.

Thank You

Ala, Wayne, Chris

SERVICE

DEPTH OF JOB	<u>268</u>
PUMP TRUCK CHARGE	<u>1125</u>
EXTRA FOOTAGE	@
MILEAGE <u>2.1</u>	@ <u>7 ⁰⁰</u> <u>147 ⁰⁰</u>
MANIFOLD	@ <u>200 ⁰⁰</u>
<u>Lite Vehicle 2 1</u>	@ <u>4 ⁰⁰</u> <u>84 ⁰⁰</u>
TOTAL	<u>1556 ⁰⁰</u>

CHARGE TO: Mar. Fire Drilling

STREET _____

CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

_____	@	_____
_____	@	_____
_____	@	_____
_____	@	_____
_____	@	_____
TOTAL	_____	_____

To Allied Cementing Co., 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 BREG Condren

SIGNATURE Breg Condren

SALES TAX (If Any) _____

TOTAL CHARGES _____

DISCOUNT _____ IF PAID IN 30 DAYS



acct.
Sig H.

INVOICE

PO Box 93999
Southlake, TX 76092

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

OPERATOR PAY MDC
LEASE: Steele
A 3-20/8m

Invoice Number: 131059
Invoice Date: May 3, 2012
Page: 1



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

Customer ID	Well Name# or Customer P.O.	Payment Terms	
Murfin	Steele R #3-20	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	May 3, 2012	6/2/12

Quantity	Item	Description	Unit Price	Amount
100.00	MAT	Class A Common	16.25	1,625.00
4.00	MAT	Chloride	58.20	232.80
105.00	SER	Handling	2.10	220.50
21.00	SER	Ton Miles	11.38	238.90
1.00	CEMENTER	Alan Ryan		
1.00	EQUIP OPER	Wayne McGhghy		
1.00	OPER ASSIST	Chris Helpingstine		

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

\$ 811.02

ONLY IF PAID ON OR BEFORE
May 28, 2012

Subtotal	2,317.20
Sales Tax	135.62
Total Invoice Amount	2,452.82
Payment/Credit Applied	
TOTAL	2,452.82

OK
Deduct

Po

ALLIED CEMENTING CO., LLC. 035389

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:
Dakota KS

DATE <i>8/2/12</i>	SEC. <i>20</i>	TWP. <i>10</i>	RANGE <i>34</i>	CALLED OUT	ON LOCATION	JOB START <i>4:30a</i>	JOB FINISH <i>5:00a</i>
LEASE	WELL# <i>3-20</i>	LOCATION <i>Mound SW 1/4 RD</i>			COUNTY <i>Thomas</i>	STATE <i>KS</i>	
OLD OR NEW (Circle one)		<i>1/4 S W 1/4 N 1/4</i>					

CONTRACTOR <i>Mar Fin 20</i>	OWNER <i>Same</i>	
TYPE OF JOB <i>1" Surface Csg</i>		
HOLE SIZE	T.D.	CEMENT
CASING SIZE	DEPTH	AMOUNT ORDERED
TUBING SIZE	DEPTH	
DRILL PIPE	DEPTH	
TOOL	DEPTH	
PRES. MAX	MINIMUM	COMMON <i>100</i> @ <i>16.25</i> 16.25
MEAS. LINE	SHOE JOINT	POZMIX @
CEMENT LEFT IN CSG.		GEL @
PERFS.		CHLORIDE <i>4</i> @ <i>58.00</i> 232.00
DISPLACEMENT		ASC @

EQUIPMENT

PUMP TRUCK	CEMENTER <i>Alan</i>
# <i>422</i>	HELPER <i>Wage</i>
BULK TRUCK	
# <i>390</i>	DRIVER <i>Chris</i>
BULK TRUCK	
#	DRIVER

HANDLING 105 CF @ <i>2.20</i> 220.00
MILEAGE <i>25/100/mile 9.84 100</i> @ <i>23.00</i> 228.00
TOTAL <i>231.70</i>

REMARKS:
Rn 1" in Hole, Max 100SK, Com 370 CL

Cement did complete

CHARGE TO: *Mar Fin Drilling*

STREET _____

CITY _____ STATE _____ ZIP _____

SERVICE

DEPTH OF JOB	
PUMP TRUCK CHARGE	
EXTRA FOOTAGE @	
MILEAGE @	
MANIFOLD @	
TOTAL	

PLUG & FLOAT EQUIPMENT

	@	
	@	
	@	
	@	
	@	
TOTAL		

To Allied Cementing Co., 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 _____

DISCOUNT _____ IF PAID IN 30 DAYS

PRINTED NAME *DREG Casden*

SIGNATURE *Dreg Casden*



PO Box 93999
Southlake, TX 76092

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

acct.
Liz H.

INVOICE

Invoice Number: 131246

Invoice Date: May 15, 2012

Page: 1



Bill To:
Murfin Drig. Co., Inc.
*PO Box 661
Colby, KS 67701*

Customer ID	Well Name# or Customer P.O.	Payment Terms	
Murfin	<i>Steele A 3-20</i>	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-03	Oakley	May 15, 2012	6/14/12

Quantity	Item	Description	Unit Price	Amount
132.00	MAT	Class A Common	16.25	2,145.00
88.00	MAT	Pozmix	8.50	748.00
8.00	MAT	Gel	21.25	170.00
55.00	MAT	FloSeal	2.70	148.50
236.28	SER	Cubic Feet	2.10	496.19
207.27	SER	Ton Miles	2.35	487.08
1.00	SER	<u>Plug To Abandon</u>	1,250.00	1,250.00
21.00	SER	Heavy Vehicle Mileage	7.00	147.00
21.00	SER	Light Vehicle Mileage	4.00	84.00
1.00	EQP	4 1/2 Wooden Plug	92.00	92.00
1.00	CEMENTER	LaRene Wentz		
1.00	EQUIP OPER	Dane Retzloff		
1.00	OPER ASSIST	Ethan Glassman		

PKAD

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

\$ 2018.72

ONLY IF PAID ON OR BEFORE
Jun 9, 2012

Subtotal	5,767.77
Sales Tax	421.05
Total Invoice Amount	6,188.82
Payment/Credit Applied	
TOTAL	6,188.82

deduct

[Signature]

ALLIED CEMENTING CO., LLC. 034483

Federal Tax I.D.# 20-5976804

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

SERVICE POINT:
Oakley, Ks

DATE <u>5-15-12</u>	SEC. <u>20</u>	TWP. <u>10</u>	RANGE <u>34</u>	CALLED OUT	ON LOCATION	JOB START <u>11:00am</u>	JOB FINISH <u>12:00am</u>
BASE <u>Steele "A"</u>	WELL# <u>3-20</u>	LOCATION <u>Monumatts, 20, 5d,</u>			COUNTY <u>Thomas</u>	STATE <u>Ks</u>	
OLD OR NEW (Circle one)		<u>SW, Y2S, W4 North</u>					

CONTRACTOR Martin #2

TYPE OF JOB PPTA

HOLE SIZE 7 1/2" T.D. 4888'

CASING SIZE _____ DEPTH _____

TUBING SIZE _____ DEPTH _____

DRILL PIPE 4 1/2" DEPTH 2750'

COOL _____ DEPTH _____

RES. MAX _____ MINIMUM _____

ABAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. _____

PERFS. _____

DISPLACEMENT 35.55 bbl

OWNER Same

CEMENT AMOUNT ORDERED 220 sks 60900 4 bags of 14 flo-seal

COMMON	<u>132 sks @ 16.21</u>	<u>2145.00</u>
POZMIX	<u>88 sks @ 8.50</u>	<u>748.00</u>
GEL	<u>8 sks @ 21.25</u>	<u>170.00</u>
CHLORIDE	@	
ASC	@	
<u>flo-seal 55#</u>	<u>@ 2.70</u>	<u>148.50</u>
	@	
	@	
	@	
	@	
	@	
HANDLING	<u>236.2843 @ 2.19</u>	<u>496.19</u>
MILEAGE	<u>2.87 hours @ 21 x 2.35</u>	<u>142.08</u>
TOTAL		<u>4174.77</u>

EQUIPMENT

PUMP TRUCK CEMENTER Lokene

431 HELPER Dave

BULK TRUCK 347 DRIVER Ethan

BULK TRUCK DRIVER _____

REMARKS:

mix 25 sks 2750'

mix 100 sks 1750'

mix 40 sks 325'

plug top of hole 10 sks

plug mouse hole 15 sks

plug rat hole 30 sks

Thank you

CHARGE TO: Murfin Drilling Co

STREET _____

CITY _____ STATE _____ ZIP _____

SERVICE

DEPTH OF JOB	<u>2750'</u>	
PUMP TRUCK CHARGE		<u>1250.00</u>
EXTRA FOOTAGE	@	
MILEAGE	<u>21</u>	@ <u>7.00</u> <u>147.00</u>
MANIFOLD	@	
<u>2.68 mileage 21</u>	@ <u>4.00</u>	<u>84.00</u>
	@	
TOTAL		<u>1481.00</u>

PLUG & FLOAT EQUIPMENT

<u>Wooden plug</u>	@	<u>92.00</u>
	@	
	@	
	@	
	@	
TOTAL		<u>92.00</u>

to Allied Cementing Co., 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 one 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 BREB CONDREN

SIGNATURE Breb Condren

SALES TAX (If Any) _____

TOTAL CHARGES _____

DISCOUNT _____ IF PAID IN 30 DAYS