



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1138397
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: _____



1138397

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> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



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

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

Sam Brownback, Governor

May 08, 2013

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

Re: ACO1
API 15-051-26460-00-00
Schwind Unit 1-36
NE/4 Sec.36-15S-19W
Ellis County, Kansas

Dear Production Department:

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

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

Respectfully,
Leon Rodak

MDCI Schwind Unit #1-36 1475' FNL 1550' FEL Sec. 36-T15S-R19W 1989' KB							Black Diamond Legleiter #3 NW SE SE Sec. 36-T15S-R19W 1961' KB	
Formation	Sample top	Datum	Ref	Log tops	Datum	Ref	Log tops	Datum
Anhydrite	1162	+827	-3	1162	+827	-3	1131	+830
B/Anhydrite	1193	+796	+9	1199	+793	+6	1174	+787
Topeka	2950	-961	+5	2964	-975	-9	2927	-966
Heebner	3229	-1240	-4	3233	-1244	-8	3197	-1236
Toronto	3253	-1264	-5	3254	-1265	-6	3220	-1259
Lansing	3278	-1289	-7	3277	-1288	-6	3243	-1282
Stark	3474	-1485	-8	3472	-1483	-6	3438	-1477
BKC	3517	-1528	-7	3517	-1528	-7	3482	-1521
Arbuckle	3573	-1584	+7	3573	-1584	+7	3552	-1591
RTD	3673						3573	
LTD				3676			3570	



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N. Water Ste. 300
Wichita KS 67202-1216

ATTN: Scott Robinson

Schwind Unit #1-36

36-15s-19w Ellis,KS

Start Date: 2013.01.19 @ 15:40:18

End Date: 2013.01.19 @ 21:58:42

Job Ticket #: 51631 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.01.24 @ 15:17:56



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co Inc
 250 N.Water Ste. 300
 Wichita KS 67202-1216
 ATTN: Scott Robinson

36-15s-19w Ellis,KS
Schwind Unit #1-36
 Job Ticket: 51631 **DST#: 1**
 Test Start: 2013.01.19 @ 15:40:18

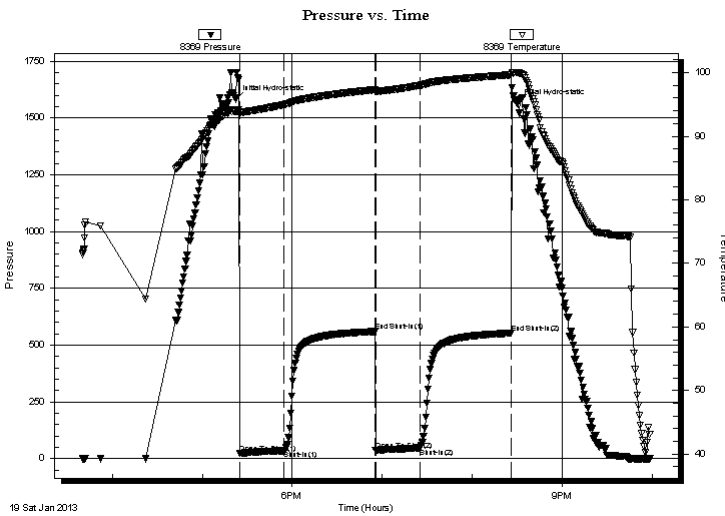
GENERAL INFORMATION:

Formation: **LKC B-D**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 17:24:58 Tester: Ray Schwager
 Time Test Ended: 21:58:42 Unit No: 42
 Interval: **3284.00 ft (KB) To 3335.00 ft (KB) (TVD)** Reference Elevations: 1989.00 ft (KB)
 Total Depth: 3335.00 ft (KB) (TVD) 1978.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 11.00 ft

Serial #: 8369 Inside
 Press @ Run Depth: 47.90 psig @ 3300.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.01.19 End Date: 2013.01.19 Last Calib.: 2013.01.19
 Start Time: 15:40:18 End Time: 21:58:42 Time On Btm: 2013.01.19 @ 17:22:13
 Time Off Btm: 2013.01.19 @ 20:29:42

TEST COMMENT: 30-IFP-w k bl thru-out 1/8" bl
 60-ISIP-no bl
 30-FFP-no bl
 60-FSIP-no bl

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1582.39	93.87	Initial Hydro-static
3	23.30	93.42	Open To Flow (1)
33	35.31	94.96	Shut-In(1)
93	559.84	97.32	End Shut-In(1)
94	37.15	97.11	Open To Flow (2)
124	47.90	98.00	Shut-In(2)
184	551.77	99.66	End Shut-In(2)
188	1563.66	100.02	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	Mud	0.15

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co Inc

36-15s-19w Ellis,KS

250 N.Water Ste. 300
Wichita KS 67202-1216

Schwind Unit #1-36

Job Ticket: 51631

DST#: 1

ATTN: Scott Robinson

Test Start: 2013.01.19 @ 15:40:18

Tool Information

Drill Pipe:	Length: 3062.00 ft	Diameter: 3.80 inches	Volume: 42.95 bbl	Tool Weight: 2200.00 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: 210.00 ft	Diameter: 2.25 inches	Volume: 1.03 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 43.98 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	3284.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	51.00 ft			
Tool Length:	79.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			3257.00	
Shut In Tool	5.00			3262.00	
Hydraulic tool	5.00			3267.00	
Jars	5.00			3272.00	
Safety Joint	2.00			3274.00	
Packer	5.00			3279.00	28.00 Bottom Of Top Packer
Packer	5.00			3284.00	
Stubb	1.00			3285.00	
Perforations	15.00			3300.00	
Recorder	0.00	8369	Inside	3300.00	
Recorder	0.00	8700	Outside	3300.00	
Blank Spacing	32.00			3332.00	
Bullnose	3.00			3335.00	51.00 Bottom Packers & Anchor

Total Tool Length: 79.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc

36-15s-19w Ellis,KS

250 N.Water Ste. 300
Wichita KS 67202-1216

Schwind Unit #1-36

Job Ticket: 51631

DST#: 1

ATTN: Scott Robinson

Test Start: 2013.01.19 @ 15:40:18

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: 65.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.33 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4900.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	Mud	0.148

Total Length: 30.00 ft Total Volume: 0.148 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

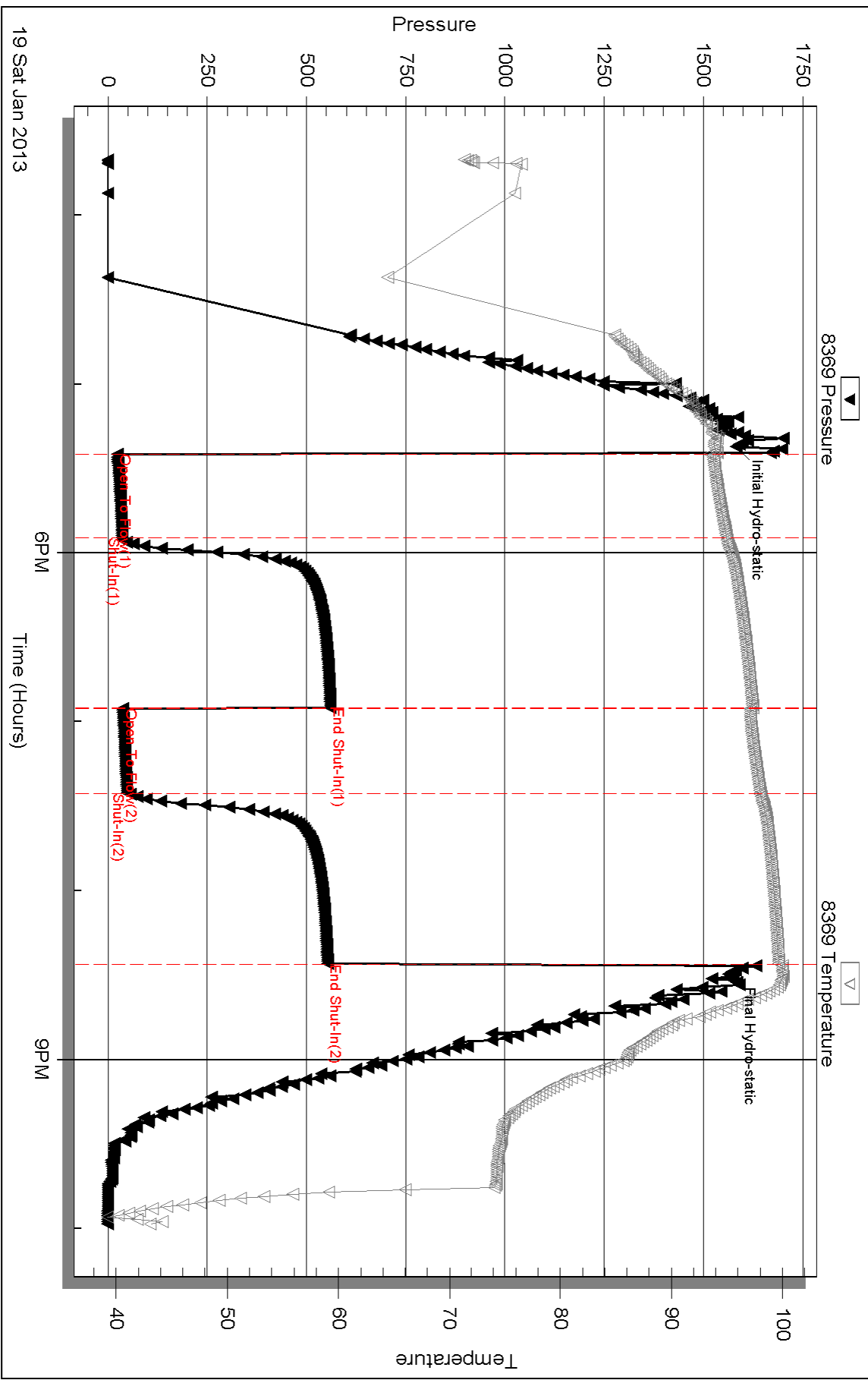
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

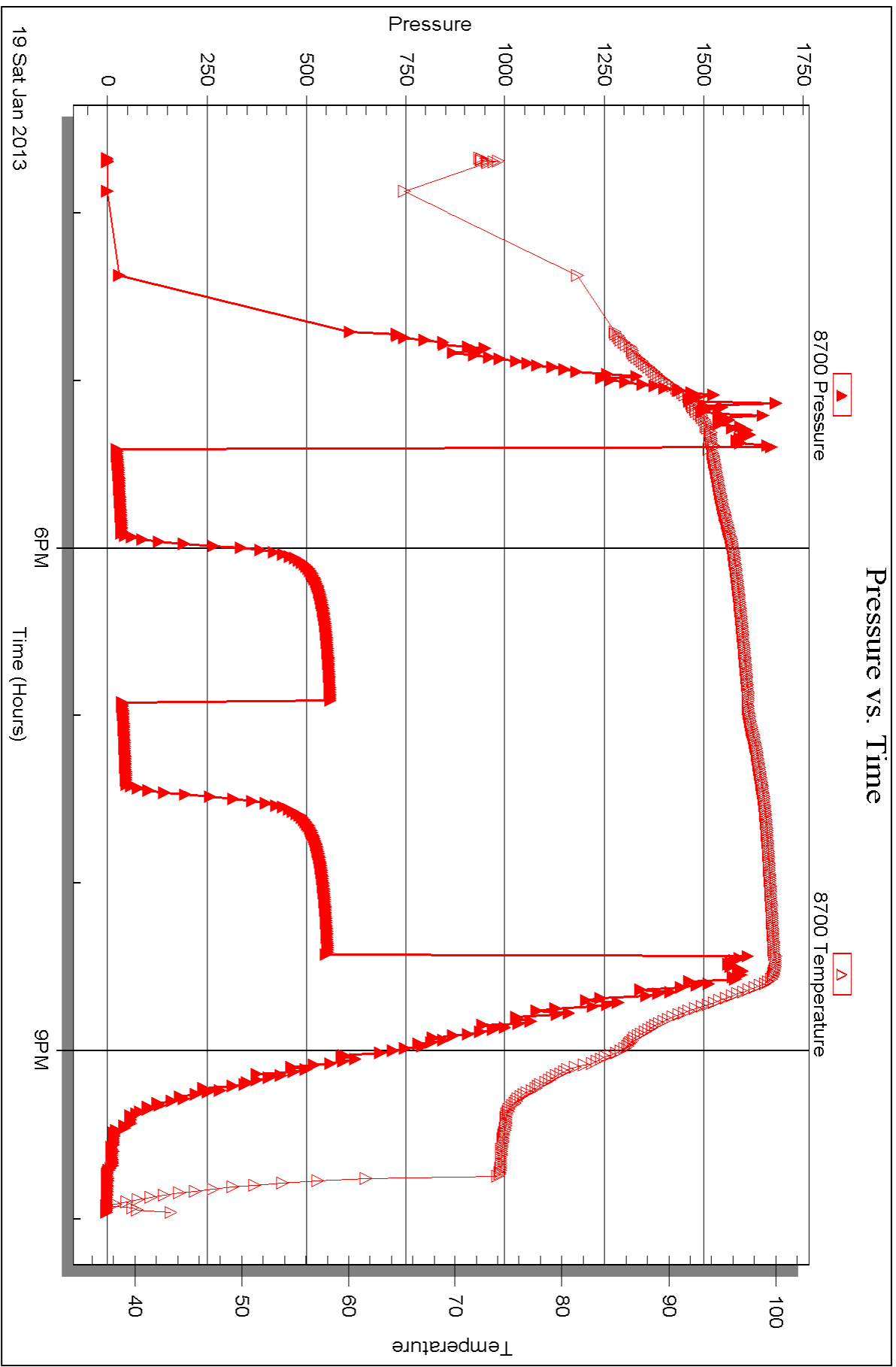


Serial #: 8700

Outside Murfin Drilling Co Inc

Schwind Unit #1-36

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 51631

Printed: 2013.01.24 @ 15:17:59



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N. Water Ste. 300
Wichita KS 67202-1216

ATTN: Scott Robinson

Schwind Unit #1-36

36-15s-19w Ellis,KS

Start Date: 2013.01.20 @ 16:45:47

End Date: 2013.01.20 @ 23:06:41

Job Ticket #: 51632 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.01.24 @ 15:17:12



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co Inc
 250 N. Water Ste. 300
 Wichita KS 67202-1216
 ATTN: Scott Robinson

36-15s-19w Ellis, KS
Schwind Unit #1-36
 Job Ticket: 51632 **DST#: 2**
 Test Start: 2013.01.20 @ 16:45:47

GENERAL INFORMATION:

Formation: **LKC I-K**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 18:29:27
 Time Test Ended: 23:06:41
 Interval: **3427.00 ft (KB) To 3495.00 ft (KB) (TVD)**
 Total Depth: 3495.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Ray Schwager
 Unit No: 42
 Reference Elevations: 1989.00 ft (KB)
 1978.00 ft (CF)
 KB to GR/CF: 11.00 ft

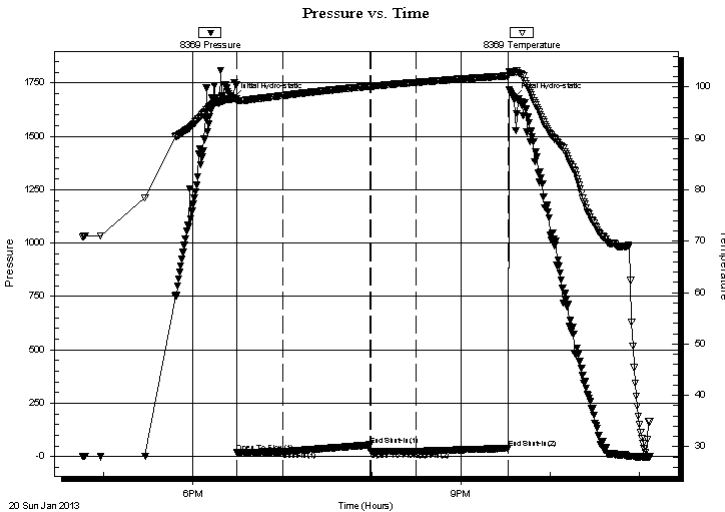
Serial #: 8369

Inside

Press @ Run Depth: 24.27 psig @ 3437.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.01.20 End Date: 2013.01.20 Last Calib.: 2013.01.20
 Start Time: 16:45:47 End Time: 23:06:41 Time On Btm: 2013.01.20 @ 18:26:57
 Time Off Btm: 2013.01.20 @ 21:35:42

TEST COMMENT: 30-IFP-w k bl, died in 20 min
 60-ISIP-no bl
 30-FFP-no bl
 60-FSIP-no bl

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1681.21	97.67	Initial Hydro-static
3	19.47	97.29	Open To Flow (1)
33	22.35	98.32	Shut-In(1)
92	54.54	100.15	End Shut-In(1)
93	23.50	100.14	Open To Flow (2)
123	24.27	100.89	Shut-In(2)
185	38.78	102.16	End Shut-In(2)
189	1681.22	102.92	Final Hydro-static

Recovery

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

* 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 Inc
250 N. Water Ste. 300
Wichita KS 67202-1216
ATTN: Scott Robinson

36-15s-19w Ellis, KS
Schwind Unit #1-36
Job Ticket: 51632 **DST#: 2**
Test Start: 2013.01.20 @ 16:45:47

Tool Information

Drill Pipe:	Length: 3220.00 ft	Diameter: 3.80 inches	Volume: 45.17 bbl	Tool Weight: 2200.00 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: 210.00 ft	Diameter: 2.25 inches	Volume: 1.03 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 46.20 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 61000.00 lb
Depth to Top Packer:	3427.00 ft			Final 61000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	68.00 ft			
Tool Length:	96.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			3400.00	
Shut In Tool	5.00			3405.00	
Hydraulic tool	5.00			3410.00	
Jars	5.00			3415.00	
Safety Joint	2.00			3417.00	
Packer	5.00			3422.00	28.00 Bottom Of Top Packer
Packer	5.00			3427.00	
Stubb	1.00			3428.00	
Perforations	9.00			3437.00	
Recorder	0.00	8369	Inside	3437.00	
Recorder	0.00	8700	Outside	3437.00	
Blank Spacing	32.00			3469.00	
Perforations	23.00			3492.00	
Bullnose	3.00			3495.00	68.00 Bottom Packers & Anchor

Total Tool Length: 96.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc
250 N. Water Ste. 300
Wichita KS 67202-1216
ATTN: Scott Robinson

36-15s-19w Ellis, KS
Schwind Unit #1-36
Job Ticket: 51632 **DST#: 2**
Test Start: 2013.01.20 @ 16:45:47

Mud and Cushion Information

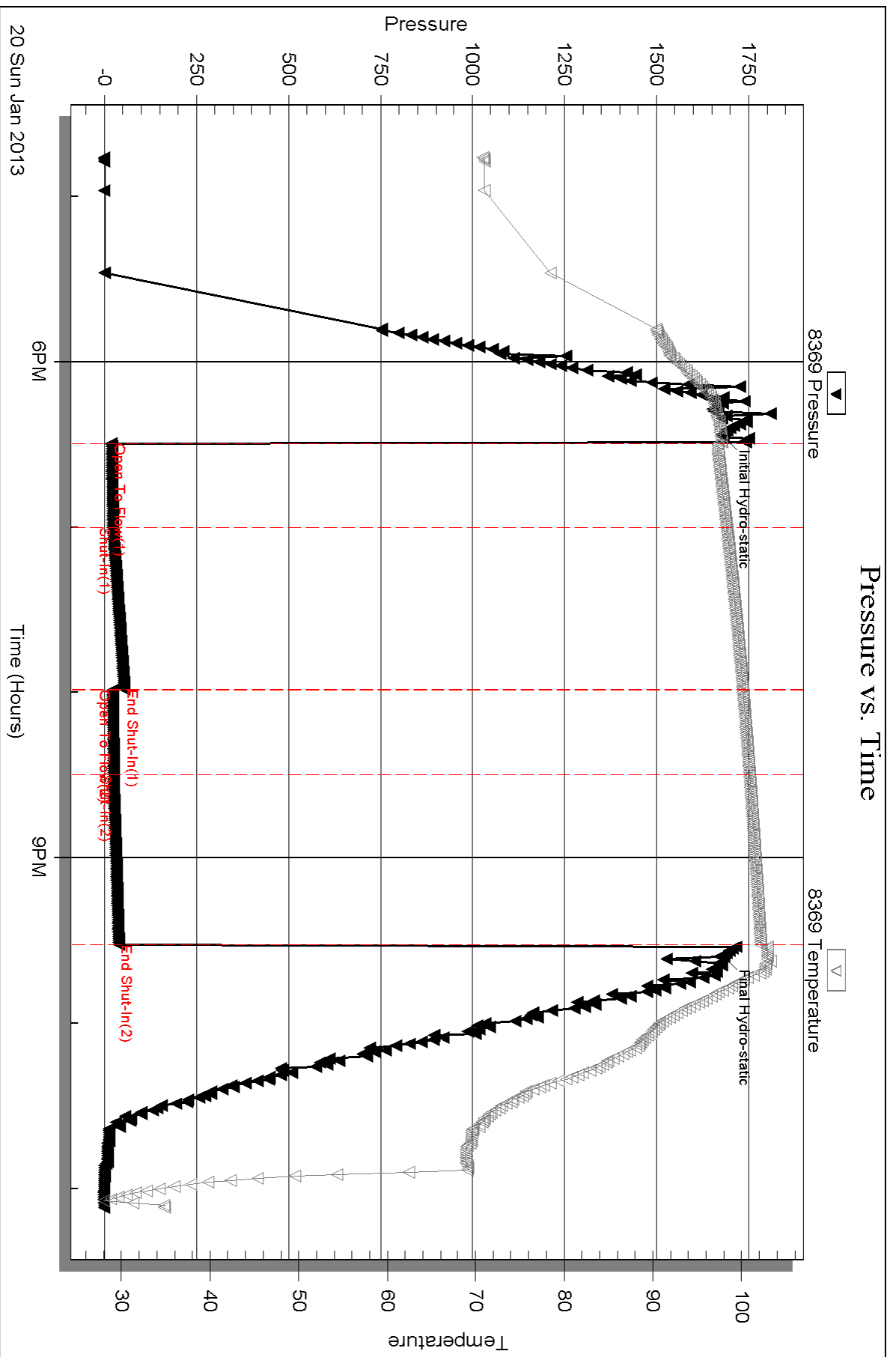
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 57.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.74 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 5600.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Mud	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

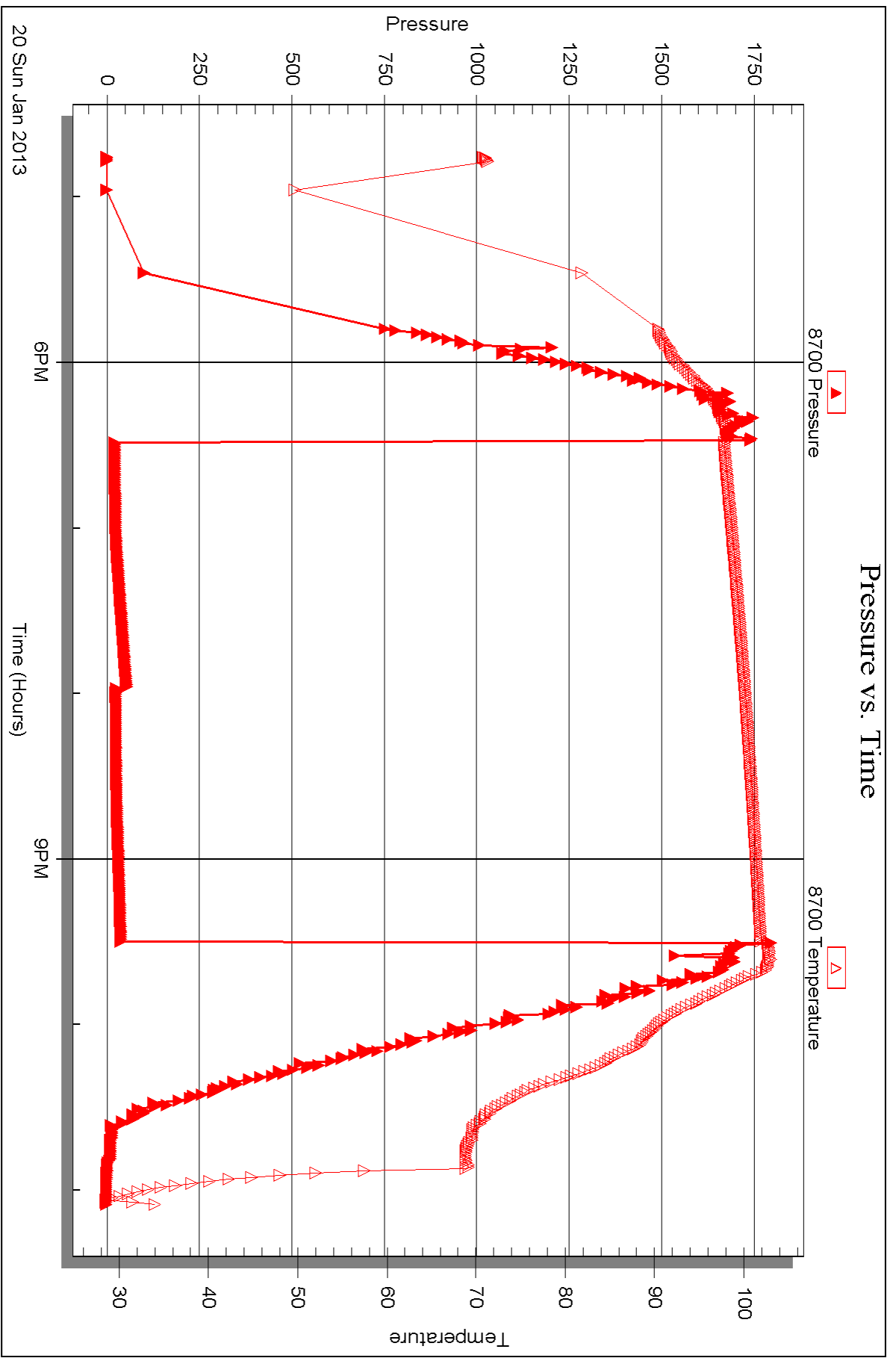


Serial #: 8700

Outside Murfin Drilling Co Inc

Schwind Unit #1-36

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 51632

Printed: 2013.01.24 @ 15:17:15



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N. Water Ste. 300
Wichita KS 67202-1216

ATTN: Scott Robinson

Schwind Unit #1-36

36-15s-19w Ellis,KS

Start Date: 2013.01.21 @ 11:45:50

End Date: 2013.01.21 @ 18:10:29

Job Ticket #: 51633 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.01.24 @ 15:16:12

Murfin Drilling Co Inc

36-15s-19w Ellis,KS

Schwind Unit #1-36

DST # 3

Lower Pawnee

2013.01.21



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co Inc
 250 N.Water Ste. 300
 Wichita KS 67202-1216
 ATTN: Scott Robinson

36-15s-19w Ellis,KS
Schwind Unit #1-36
 Job Ticket: 51633 **DST#: 3**
 Test Start: 2013.01.21 @ 11:45:50

GENERAL INFORMATION:

Formation: **Lower Pawnee**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 13:32:30
 Time Test Ended: 18:10:29
 Interval: **3527.00 ft (KB) To 3572.00 ft (KB) (TVD)**
 Total Depth: 3572.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Ray Schwager
 Unit No: 42
 Reference Elevations: 1989.00 ft (KB)
 1978.00 ft (CF)
 KB to GR/CF: 11.00 ft

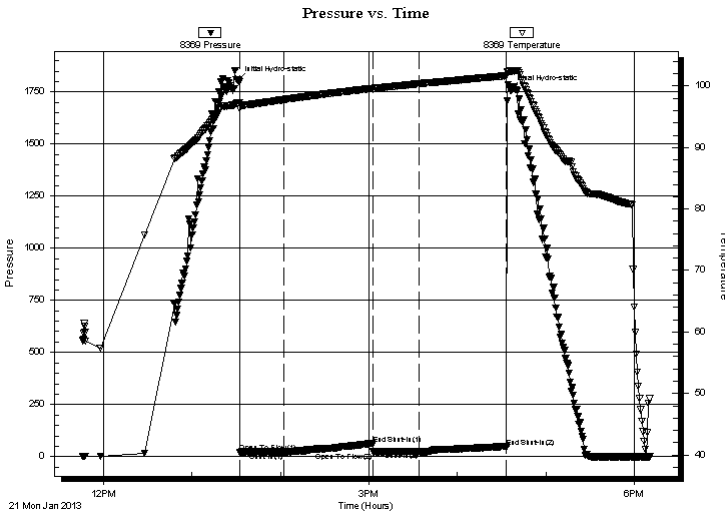
Serial #: 8369

Inside

Press @ Run Depth: 24.24 psig @ 3536.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.01.21 End Date: 2013.01.21 Last Calib.: 2013.01.21
 Start Time: 11:45:50 End Time: 18:10:29 Time On Btm: 2013.01.21 @ 13:31:15
 Time Off Btm: 2013.01.21 @ 16:35:59

TEST COMMENT: 30-IFP- weak surface blow died in 25 minutes
 60-ISIP-no bl
 30-FFP- few bubbles w hen tool opened then died no bl
 60-FSIP-no bl

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1803.13	97.24	Initial Hydro-static
2	22.33	96.37	Open To Flow (1)
31	22.17	97.79	Shut-In(1)
92	60.02	99.62	End Shut-In(1)
92	22.97	99.61	Open To Flow (2)
123	24.24	100.37	Shut-In(2)
183	46.52	101.68	End Shut-In(2)
185	1759.66	102.43	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud	0.02

* 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 Inc
250 N. Water Ste. 300
Wichita KS 67202-1216
ATTN: Scott Robinson

36-15s-19w Ellis, KS
Schwind Unit #1-36
Job Ticket: 51633 **DST#: 3**
Test Start: 2013.01.21 @ 11:45:50

Tool Information

Drill Pipe:	Length: 3314.00 ft	Diameter: 3.80 inches	Volume: 46.49 bbl	Tool Weight: 2200.00 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: 210.00 ft	Diameter: 2.25 inches	Volume: 1.03 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 47.52 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	3527.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	45.00 ft			
Tool Length:	73.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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

Change Over Sub	1.00			3500.00	
Shut In Tool	5.00			3505.00	
Hydraulic tool	5.00			3510.00	
Jars	5.00			3515.00	
Safety Joint	2.00			3517.00	
Packer	5.00			3522.00	28.00 Bottom Of Top Packer
Packer	5.00			3527.00	
Stubb	1.00			3528.00	
Perforations	8.00			3536.00	
Recorder	0.00	8369	Inside	3536.00	
Recorder	0.00	8700	Outside	3536.00	
Blank Spacing	33.00			3569.00	
Bullnose	3.00			3572.00	45.00 Bottom Packers & Anchor

Total Tool Length: 73.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc

36-15s-19w Ellis,KS

250 N.Water Ste. 300
Wichita KS 67202-1216

Schwind Unit #1-36

Job Ticket: 51633

DST#: 3

ATTN: Scott Robinson

Test Start: 2013.01.21 @ 11:45:50

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: 6.76 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5600.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud	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:

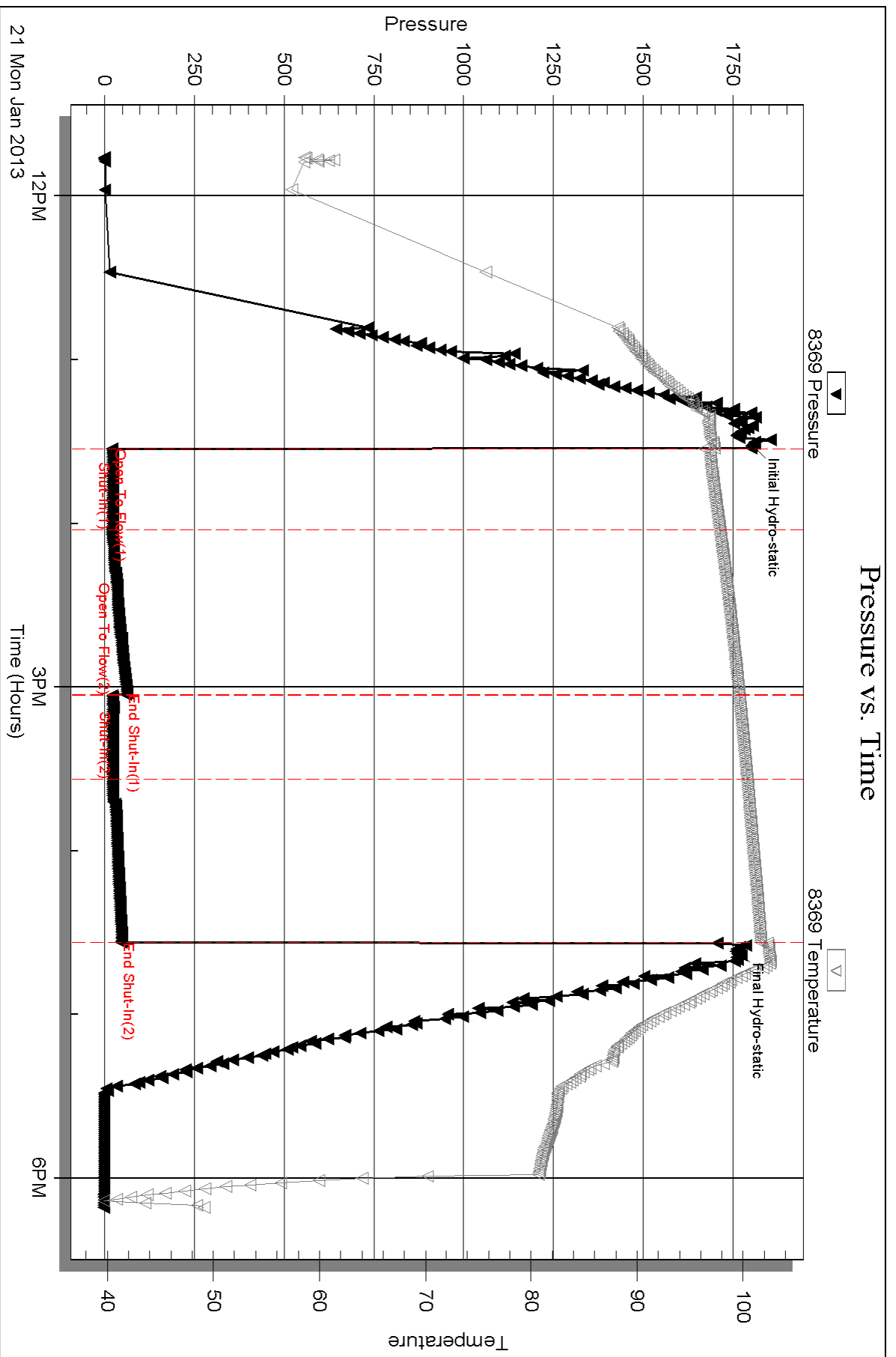
Serial #: 8369

Inside

Murfin Drilling Co Inc

Schw ind Unit #1-36

DST Test Number: 3

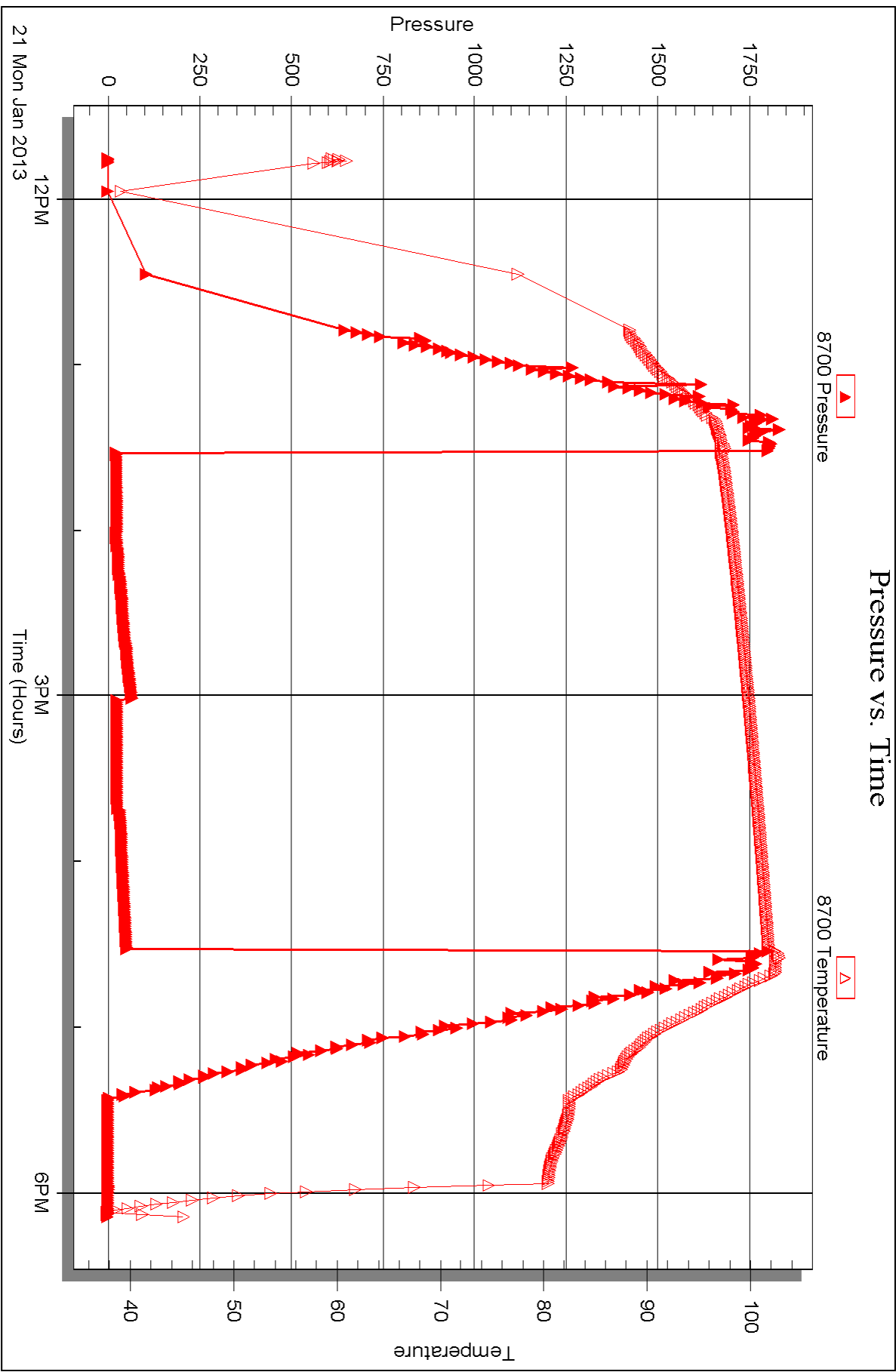


Serial #: 8700

Outside Murfin Drilling Co Inc

Schwind Unit #1-36

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 51633

Printed: 2013.01.24 @ 15:16:15



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N. Water Ste. 300
Wichita KS 67202-1216

ATTN: Scott Robinson

Schwind Unit #1-36

36-15s-19w Ellis,KS

Start Date: 2013.01.21 @ 23:50:40

End Date: 2013.01.22 @ 07:50:25

Job Ticket #: 51634 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.01.24 @ 15:15:32



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co Inc
 250 N. Water Ste. 300
 Wichita KS 67202-1216
 ATTN: Scott Robinson

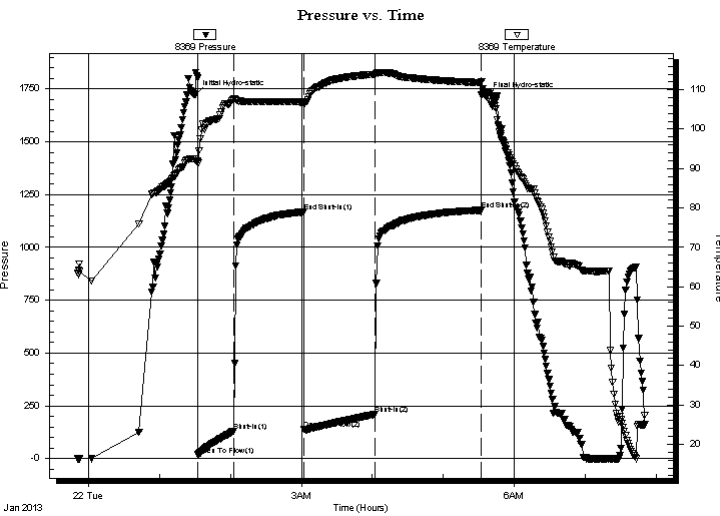
36-15s-19w Ellis, KS
Schwind Unit #1-36
 Job Ticket: 51634 **DST#: 4**
 Test Start: 2013.01.21 @ 23:50:40

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 01:32:40 Tester: Ray Schwager
 Time Test Ended: 07:50:25 Unit No: 42
 Interval: **3573.00 ft (KB) To 3593.00 ft (KB) (TVD)** Reference Elevations: 1989.00 ft (KB)
 Total Depth: 3593.00 ft (KB) (TVD) 1978.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 11.00 ft

Serial #: 8369 Inside
 Press @ Run Depth: 210.84 psig @ 3574.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.01.21 End Date: 2013.01.22 Last Calib.: 2013.01.22
 Start Time: 23:50:45 End Time: 07:50:24 Time On Btm: 2013.01.22 @ 01:30:10
 Time Off Btm: 2013.01.22 @ 05:36:10

TEST COMMENT: 30-IFP-w k to a gd bl 1/2" to 7 1/2" bl
 60-ISIP-no bl
 60-FFP-w k to a fr bl 1/2" to 6" bl
 90-FSIP-no bl



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1722.66	92.39	Initial Hydro-static
3	18.90	91.35	Open To Flow (1)
33	131.51	107.42	Shut-In(1)
92	1168.06	106.91	End Shut-In(1)
93	138.26	106.34	Open To Flow (2)
153	210.84	113.92	Shut-In(2)
242	1176.37	111.82	End Shut-In(2)
246	1715.59	108.55	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
300.00	Water	2.30
100.00	SOCMW 1%O20%M79%W	1.40
40.00	CO	0.56

* 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 Inc
250 N. Water Ste. 300
Wichita KS 67202-1216
ATTN: Scott Robinson

36-15s-19w Ellis, KS
Schwind Unit #1-36
Job Ticket: 51634 **DST#: 4**
Test Start: 2013.01.21 @ 23:50:40

Tool Information

Drill Pipe:	Length: 3343.00 ft	Diameter: 3.80 inches	Volume: 46.89 bbl	Tool Weight: 2200.00 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: 210.00 ft	Diameter: 2.25 inches	Volume: 1.03 bbl	Weight to Pull Loose: 75000.00 lb
			Total Volume: 47.92 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	3573.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	20.00 ft			
Tool Length:	48.00 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			3546.00	
Shut In Tool	5.00			3551.00	
Hydraulic tool	5.00			3556.00	
Jars	5.00			3561.00	
Safety Joint	2.00			3563.00	
Packer	5.00			3568.00	28.00 Bottom Of Top Packer
Packer	5.00			3573.00	
Stubb	1.00			3574.00	
Recorder	0.00	8369	Inside	3574.00	
Recorder	0.00	8700	Outside	3574.00	
Perforations	16.00			3590.00	
Bullnose	3.00			3593.00	20.00 Bottom Packers & Anchor

Total Tool Length: 48.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc
250 N.Water Ste. 300
Wichita KS 67202-1216
ATTN: Scott Robinson

36-15s-19w Ellis,KS
Schwind Unit #1-36
Job Ticket: 51634 **DST#: 4**
Test Start: 2013.01.21 @ 23:50:40

Mud and Cushion Information

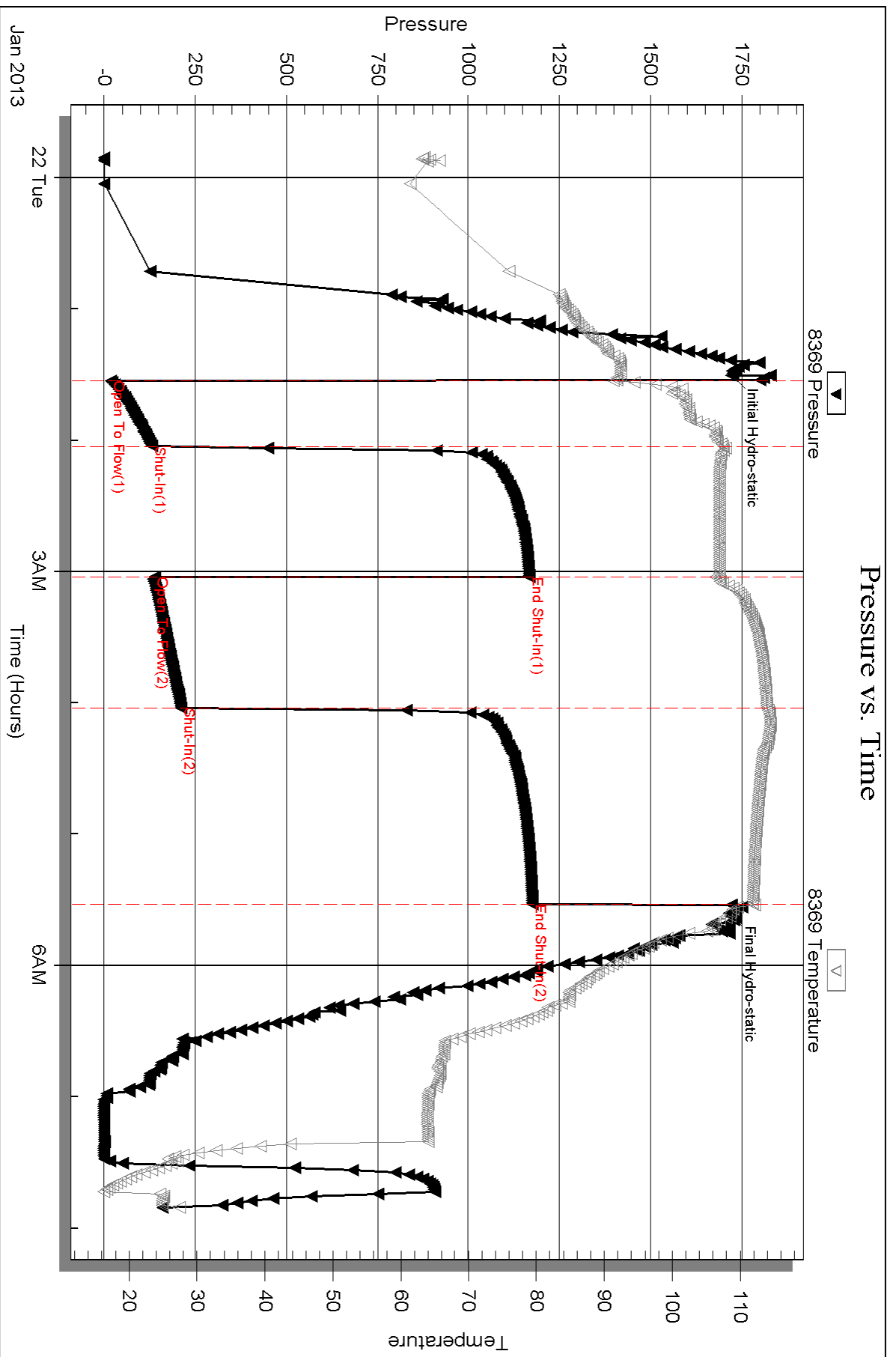
Mud Type: Gel Chem	Cushion Type:	Oil API: 32 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 36000 ppm
Viscosity: 55.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.16 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 7700.00 ppm		
Filter Cake: 1.00 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
300.00	Water	2.295
100.00	SOCMW 1%O20%M79%W	1.403
40.00	CO	0.561

Total Length: 440.00 ft Total Volume: 4.259 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments: RW .27@50F

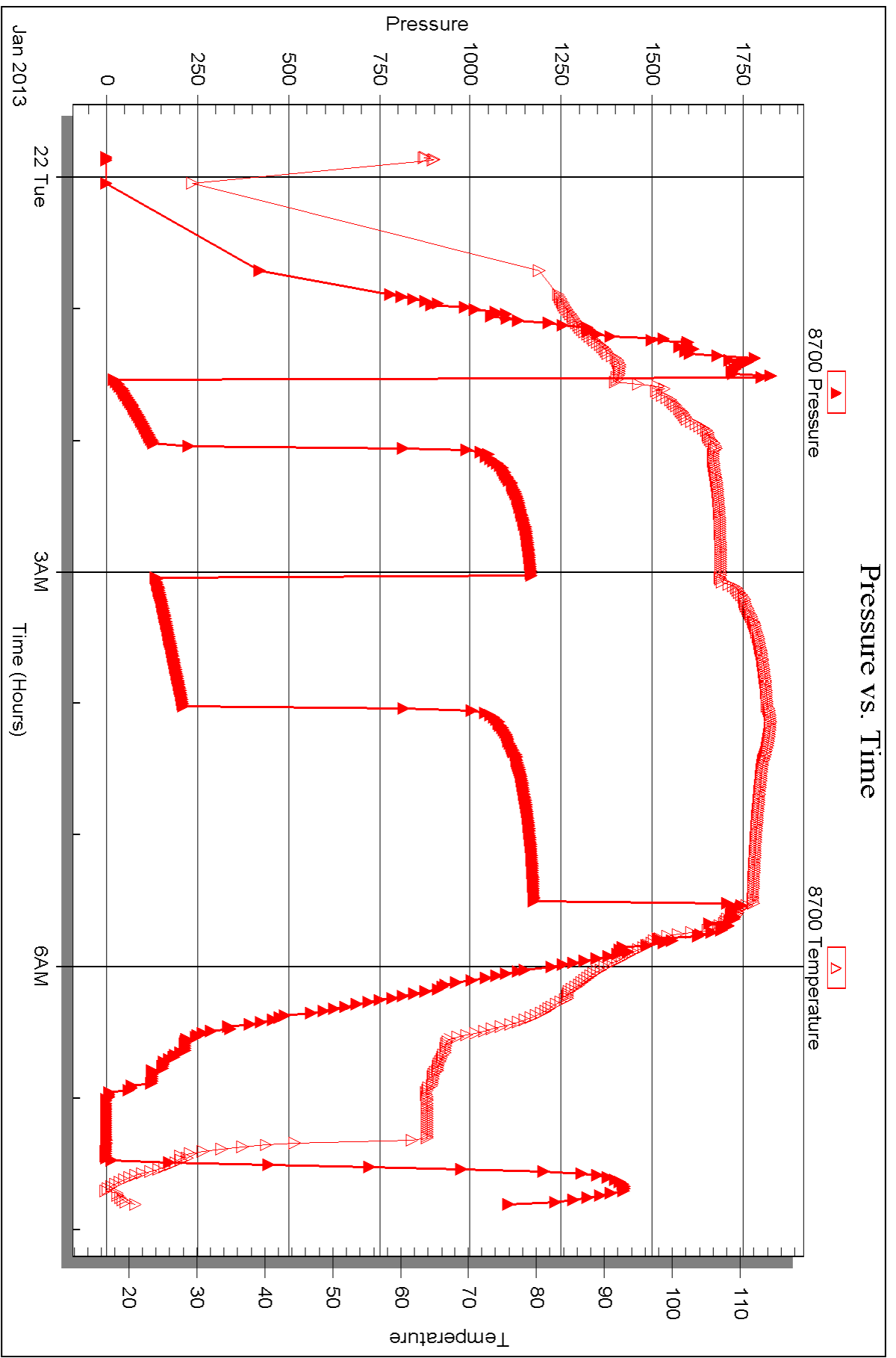


Serial #: 8700

Outside Murfin Drilling Co Inc

Schwind Unit #1-36

DST Test Number: 4





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N. Water Ste. 300
Wichita KS 67202-1216

ATTN: Scott Robinson

Schwind Unit #1-36

36-15s-19w Ellis,KS

Start Date: 2013.01.22 @ 15:30:44

End Date: 2013.01.22 @ 21:28:38

Job Ticket #: 51635 DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.01.24 @ 15:14:40

Murfin Drilling Co Inc

36-15s-19w Ellis,KS

Schwind Unit #1-36

DST # 5

Reagan Sd

2013.01.22



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co Inc
 250 N. Water Ste. 300
 Wichita KS 67202-1216
 ATTN: Scott Robinson

36-15s-19w Ellis, KS
Schwind Unit #1-36
 Job Ticket: 51635 **DST#: 5**
 Test Start: 2013.01.22 @ 15:30:44

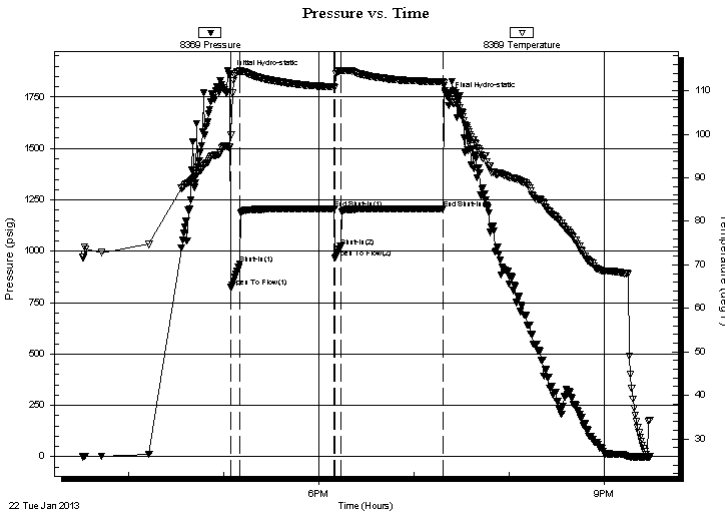
GENERAL INFORMATION:

Formation: **Reagan Sd**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Straddle (Reset)
 Time Tool Opened: 17:04:24 Tester: Ray Schwager
 Time Test Ended: 21:28:38 Unit No: 42
 Interval: **3599.00 ft (KB) To 3613.00 ft (KB) (TVD)** Reference Elevations: 1989.00 ft (KB)
 Total Depth: 3635.00 ft (KB) (TVD) 1978.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 11.00 ft

Serial #: 8369 Inside
 Press @ Run Depth: 1022.65 psig @ 3604.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.01.22 End Date: 2013.01.22 Last Calib.: 2013.01.22
 Start Time: 15:30:44 End Time: 21:28:38 Time On Btm: 2013.01.22 @ 17:03:24
 Time Off Btm: 2013.01.22 @ 19:21:09

TEST COMMENT: 5-IFP-strg bl
 60-ISIP-no bl
 5-FFP-strg bl
 60-FSIP-no bl

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1857.25	96.98	Initial Hydro-static
1	823.60	99.79	Open To Flow (1)
7	938.65	114.46	Shut-In(1)
66	1206.72	110.86	End Shut-In(1)
67	967.75	110.75	Open To Flow (2)
71	1022.65	114.57	Shut-In(2)
135	1206.82	112.09	End Shut-In(2)
138	1750.65	108.85	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1560.00	Water	19.97
180.00	MW 15%MB5%W	2.52

* 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 Inc
250 N. Water Ste. 300
Wichita KS 67202-1216
ATTN: Scott Robinson

36-15s-19w Ellis, KS
Schwind Unit #1-36
Job Ticket: 51635 **DST#: 5**
Test Start: 2013.01.22 @ 15:30:44

Tool Information

Drill Pipe:	Length: 3376.00 ft	Diameter: 3.80 inches	Volume: 47.36 bbl	Tool Weight: 2200.00 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: 210.00 ft	Diameter: 2.25 inches	Volume: 1.03 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 48.39 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	3599.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	3613.00 ft			
Interval between Packers:	14.00 ft			
Tool Length:	68.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3572.00	
Shut In Tool	5.00			3577.00	
Hydraulic tool	5.00			3582.00	
Jars	5.00			3587.00	
Safety Joint	2.00			3589.00	
Packer	5.00			3594.00	28.00 Bottom Of Top Packer
Packer	5.00			3599.00	
Stubb	1.00			3600.00	
Perforations	4.00			3604.00	
Recorder	0.00	8369	Inside	3604.00	
Recorder	0.00	8700	Outside	3604.00	
Perforations	5.00			3609.00	
Blank Off Sub	1.00			3610.00	
Blank Spacing	3.00			3613.00	14.00 Tool Interval
Packer	5.00			3618.00	
Stubb	1.00			3619.00	
Recorder	0.00	8374	Below	3619.00	
Perforations	17.00			3636.00	
Bullnose	3.00			3639.00	26.00 Bottom Packers & Anchor

Total Tool Length: 68.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc
250 N.Water Ste. 300
Wichita KS 67202-1216
ATTN: Scott Robinson

36-15s-19w Ellis,KS
Schwind Unit #1-36
Job Ticket: 51635 **DST#: 5**
Test Start: 2013.01.22 @ 15:30:44

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:	44000 ppm
Viscosity: 65.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.33 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4900.00 ppm			
Filter Cake: 1.00 inches			

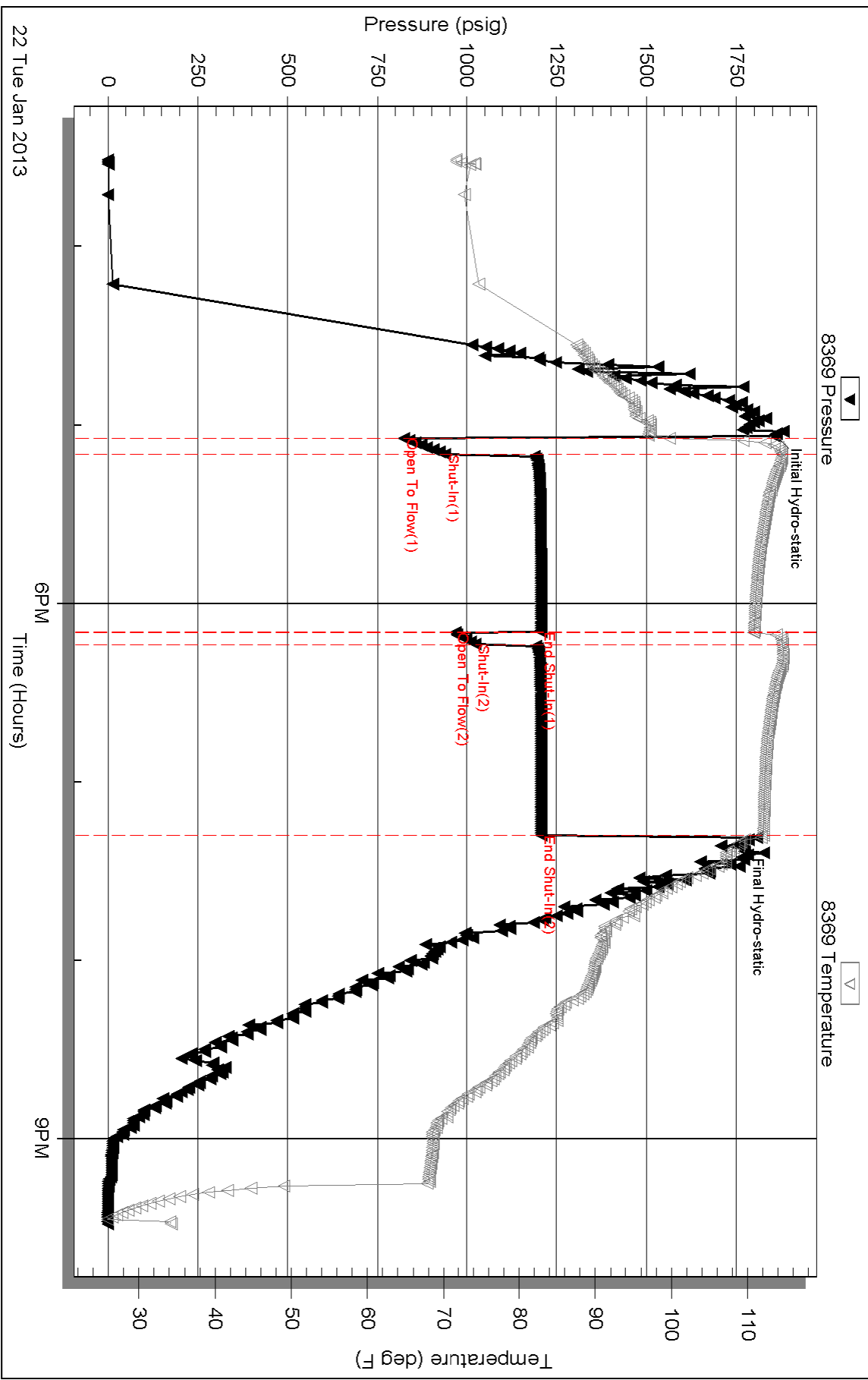
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1560.00	Water	19.970
180.00	MW 15%M85%W	2.525

Total Length: 1740.00 ft Total Volume: 22.495 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: RW .18@63F

Pressure vs. Time

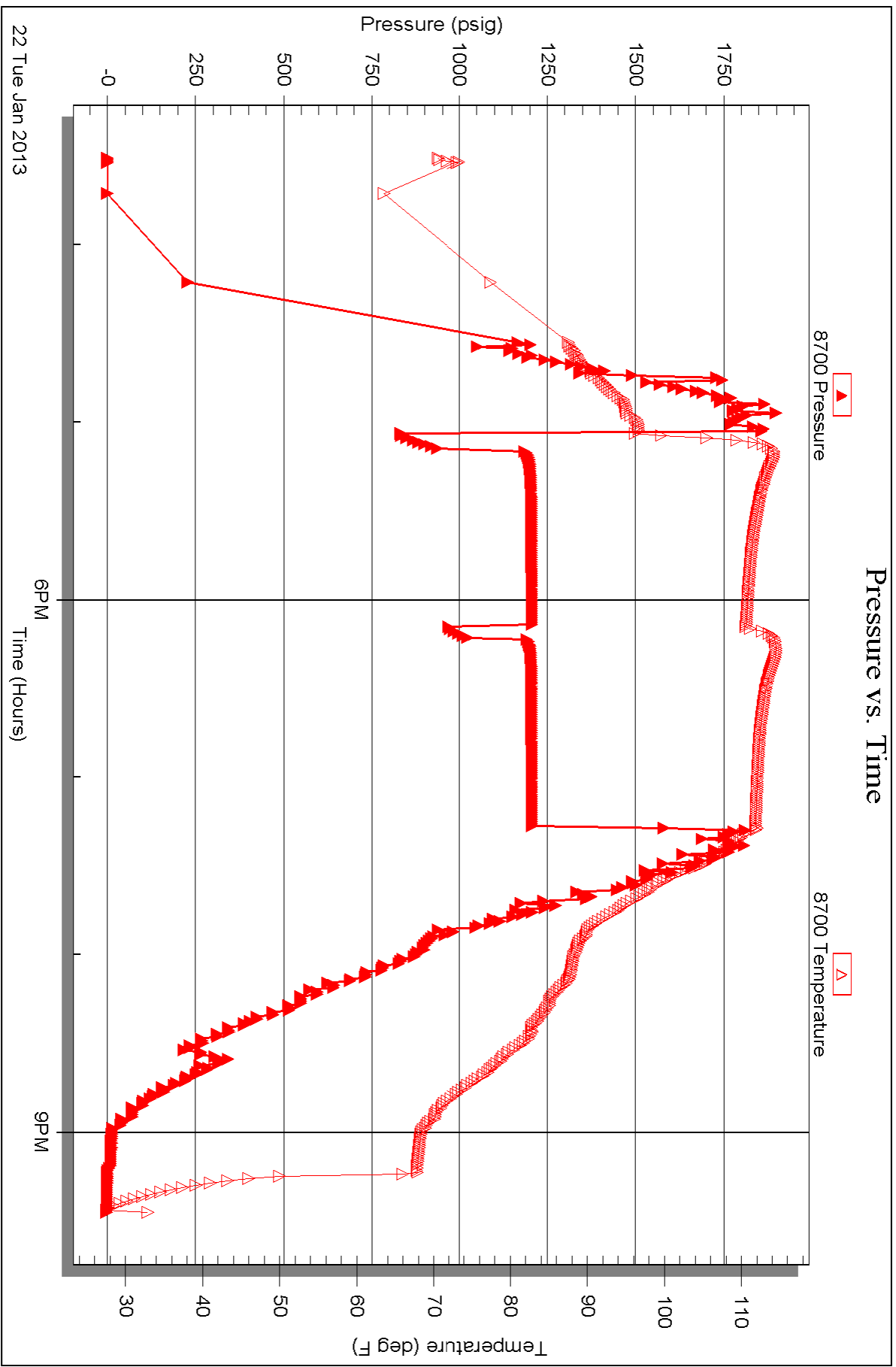


Serial #: 8700

Outside Murfin Drilling Co Inc

Schwind Unit #1-36

DST Test Number: 5



22 Tue Jan 2013

6PM Time (Hours)

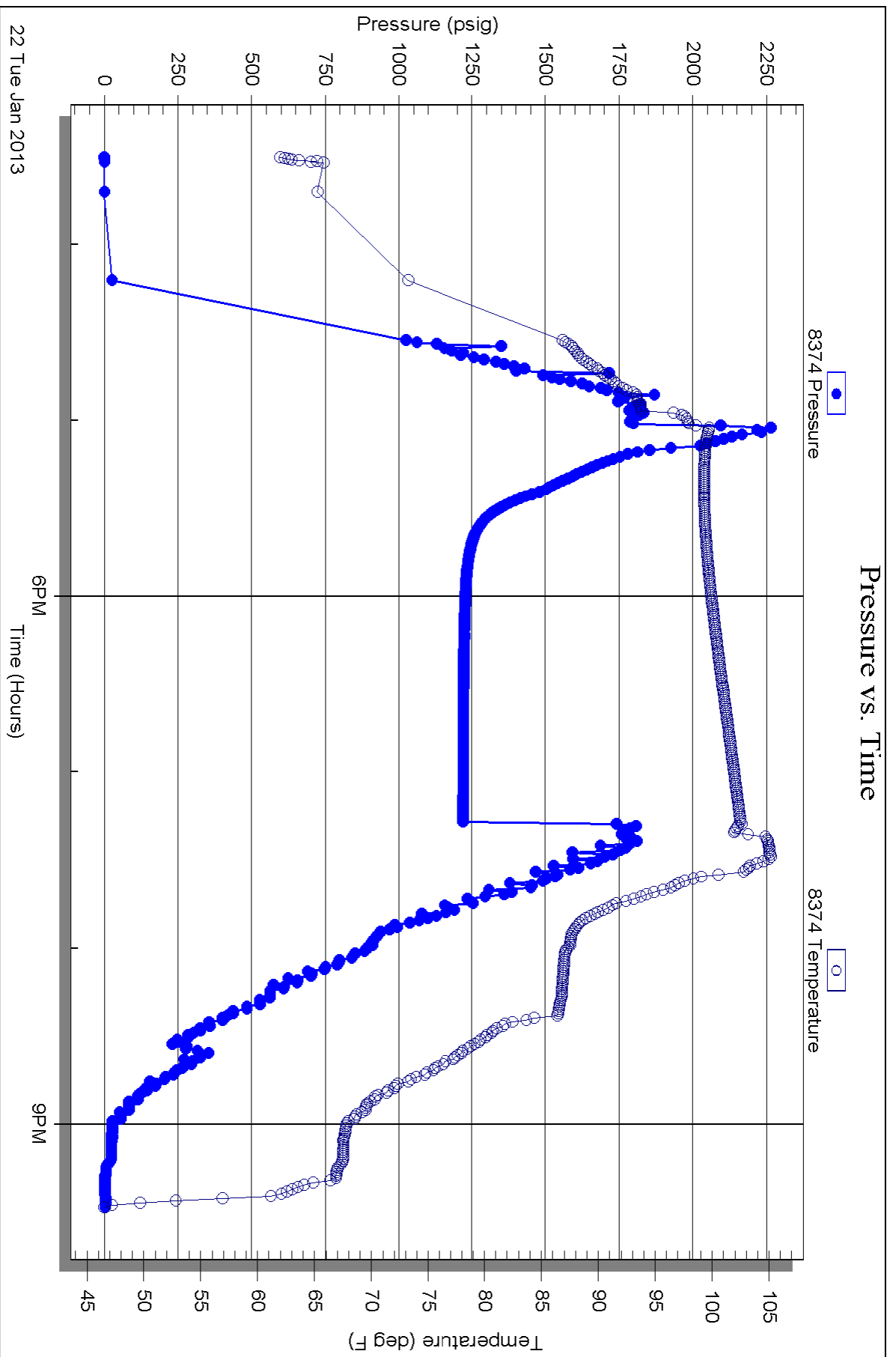
9PM

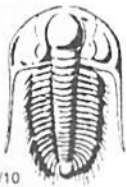
Serial #: 8374

Below (Stratader) Drilling Co Inc

Schwind Unit #1-36

DST Test Number: 5





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 51631

4/10

Well Name & No. Schwind Unit #1-36 Test No. 1 Date 1-19-13
 Company Murfin Drilling Co Inc Elevation 1989 KB 1978 GL
 Address 250 N. WATER, STE 300 WICHITA, KS 67202-1216
 Co. Rep / Geo. Robert Hendrix Rig Murfin rig 2
 Location: Sec. 36 Twp. 15^s Rge. 19^w Co. ELLIS State Ks

Interval Tested 3284-3335 Zone Tested LKC B-0
 Anchor Length 51 Drill Pipe Run 3062 Mud Wt. 8.9
 Top Packer Depth 3279 Drill Collars Run 210 Vis 65
 Bottom Packer Depth 3284 Wt. Pipe Run - WL 6.4
 Total Depth 3335 Chlorides 4900 ppm System LCM 3[#]
 Blow Description TFP - Weak Blow thru-out 1/8" Blow
ISIP - NO Blow
FFP - NO Blow
FSIP - NO Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>30</u>	<u>Mud</u>				
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 30 BHT 99 Gravity - API RW - @ - ° F Chlorides - ppm

(A) Initial Hydrostatic <u>1582</u>	<input checked="" type="checkbox"/> Test 1150	T-On Location <u>1405</u>
(B) First Initial Flow <u>23</u>	<input checked="" type="checkbox"/> Jars 250	T-Started <u>1540</u>
(C) First Final Flow <u>35</u>	<input checked="" type="checkbox"/> Safety Joint 75	T-Open <u>1725</u>
(D) Initial Shut-In <u>559</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>2025</u>
(E) Second Initial Flow <u>37</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>2158</u>
(F) Second Final Flow <u>47</u>	<input checked="" type="checkbox"/> Mileage <u>32 RT</u> 49.60	Comments
(G) Final Shut-In <u>551</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1563</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Flow <u>30</u>	<input type="checkbox"/> Day Standby	Total <u>1524.60</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1524.60</u>	

Approved By [Signature] Our Representative Ray Schwager *Thank you*

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. 51632

Well Name & No. Schwind Unit #1-36 Test No. 2 Date 1-20-13
 Company Murfin Drilling Co Inc Elevation 1989 KB 1978 GL
 Address 250 N. WATER ST 300 WICHITA, KS 67202-1216
 Co. Rep / Geo. Robert Hendrix Rig Murfin rig 2
 Location: Sec. 36 Twp. 15^s Rge. 19^w Co. Ellis State Ks

Interval Tested 3427-3495 Zone Tested LKC I-K
 Anchor Length 68 Drill Pipe Run 3220 Mud Wt. 9
 Top Packer Depth 3422 Drill Collars Run 210 Vis 57
 Bottom Packer Depth 3427 Wt. Pipe Run - WL 6.8
 Total Depth 3495 Chlorides 5600 ppm System LCM 2[#]

Blow Description IFP - WEAK Blow died in 20 min
ISIP - NO Blow
FFP - NO Blow
FSIP - NO Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>Mud</u>				
	<u>w/shallow oil</u>				

Rec Total 10 BHT 102 Gravity - API RW - @ - ° F Chlorides - ppm

(A) Initial Hydrostatic <u>1681</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>1620</u>
(B) First Initial Flow <u>19</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>1645</u>
(C) First Final Flow <u>22</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>1825</u>
(D) Initial Shut-In <u>54</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>2125</u>
(E) Second Initial Flow <u>23</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>2306</u>
(F) Second Final Flow <u>24</u>	<input checked="" type="checkbox"/> Mileage <u>32RT</u> 49.60	Comments
(G) Final Shut-In <u>38</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1681</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
	<input type="checkbox"/> Day Standby	Total <u>1524.60</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1524.60</u>	

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

Approved By [Signature] Our Representative RAY Schwager Thank you

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. 51633

4/10

Well Name & No. Schwind Unit #1-36 Test No. 3 Date 1-21-13
 Company Murfin Drilling Co Inc Elevation 1989 KB 1978 GL
 Address 250 N. WATER STE 300 WICHITA, KS 67202-1216
 Co. Rep / Geo. Robert Hendrix Rig Murfin rig 2
 Location: Sec. 36 Twp. 15 Rge. 19^w Co. ELLIS State Ks

Interval Tested 3527-3572 Zone Tested Lower Pawnee
 Anchor Length 45 Drill Pipe Run 3314 Mud Wt. 9.2
 Top Packer Depth 3522 Drill Collars Run 210 Vis 60
 Bottom Packer Depth 3527 Wt. Pipe Run - WL 6.8
 Total Depth 3572 Chlorides 5600 ppm System LCM 2#

Blow Description IFP - weak surface blow died in 25 minutes
ISIP - NO BLOW
FFP - few bubbles when tool opened then died
FSIP - NO BLOW

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>Mud</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

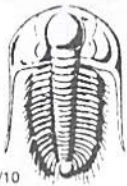
Rec Total 5 BHT 101 Gravity - API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic 1803 Test 1150 T-On Location 1105
 (B) First Initial Flow 22 Jars 250 T-Started 1145
 (C) First Final Flow 22 Safety Joint 75 T-Open 13:30
 (D) Initial Shut-In 60 Circ Sub - T-Pulled 1630
 (E) Second Initial Flow 22 Hourly Standby - T-Out 1810
 (F) Second Final Flow 24 Mileage 32RT 49.60 Comments _____
 (G) Final Shut-In 46 Sampler _____
 (H) Final Hydrostatic 1759 Straddle _____

Initial Open 30 Shale Packer _____ Ruined Shale Packer _____
 Initial Shut-In 60 Extra Packer _____ Ruined Packer _____
 Final Flow 30 Extra Recorder _____ Sub Total 0
 Final Shut-In 60 Day Standby _____ Total 1524.60
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1524.60

Approved By K. D. King Our Representative Ray Schwager hand 904

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. 51634

4/10

Well Name & No. Schwind Unit #1-36 Test No. 4 Date 1-21-13
 Company MURFIN DRILLING CO INC Elevation 1989 KB 1978 GL
 Address 250 N. WATER STE 300 WICHITA, KS 67202-1216
 Co. Rep / Geo. Robert Hendrix Rig Murfin rig 2
 Location: Sec. 36 Twp. 15^{SS} Rge. 19^W Co. ELLIX State KS

Interval Tested 3573-3593 Zone Tested Arbuckle
 Anchor Length 20 Drill Pipe Run 3343 Mud Wt. 9
 Top Packer Depth 3578 Drill Collars Run 210 Vis 55
 Bottom Packer Depth 3573 Wt. Pipe Run - WL 7.2
 Total Depth 3593 Chlorides 7700 ppm System LCM 8#
 Blow Description IFP - WEAK TO A GOOD BLOW 1/2" TO 7 1/2" BLOW
ISIP - NO BLOW
FFP - WEAK TO A FAIR BLOW 1/2" TO 6" BLOW
FSIP - NO BLOW

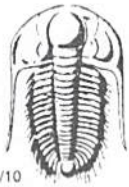
Rec	Feet of	%gas	%oil	%water	%mud
300	WATER				
100	SOC MW		1	79	20
40	CO				

Rec Total 440 BHT 112 Gravity 32 API RW .27 @ 50 °F Chlorides 36000 ppm

(A) Initial Hydrostatic <u>1722</u>	<input checked="" type="checkbox"/> Test 1150	T-On Location <u>2325</u>
(B) First Initial Flow <u>18</u>	<input checked="" type="checkbox"/> Jars 250	T-Started <u>2350</u>
(C) First Final Flow <u>131</u>	<input checked="" type="checkbox"/> Safety Joint 75	T-Open <u>0135</u>
(D) Initial Shut-In <u>1168</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>0535</u>
(E) Second Initial Flow <u>138</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>0750</u>
(F) Second Final Flow <u>210</u>	<input checked="" type="checkbox"/> Mileage <u>32 RT</u> 49.60	Comments _____
(G) Final Shut-In <u>1176</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1715</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Flow <u>60</u>	<input type="checkbox"/> Day Standby	Total <u>1524.60</u>
Final Shut-In <u>90</u>	<input type="checkbox"/> Accessibility	MP/DST Disc't _____
	Sub Total <u>1524.60</u>	

Approved By [Signature] Our Representative Ray Schwager Thank you

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. 51635

4/10

Well Name & No. Schwind Unit #1-36 Test No. 5 Date 1-22-13
 Company Murfin Drilling Co. Inc Elevation 1989 KB 1978 GL
 Address 250 N. WATER ST 300 WICHITA, KS 67202-1216
 Co. Rep / Geo. Robert Hendrix Rig Murfin rig 2
 Location: Sec. 36 Twp. 15^s Rge. 19^w Co. Ellis State Ks

Interval Tested 3599-3613 Zone Tested Reagan sd.
 Anchor Length 14 Drill Pipe Run 3376 Mud Wt. 9.1
 Top Packer Depth 3599-3594 Drill Collars Run 210 Vis 46
 Bottom Packer Depth 3613 Wt. Pipe Run - WL 9.6
 Total Depth 3635 Chlorides 12900 ppm System LCM 7#
 Blow Description IFP - STRONG Blow thru-out
ISIP - NO Blow
FFP - STRONG Blow thru-out
FSIP - NO Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>180</u>	<u>mw</u>		<u>85</u>	<u>15</u>	
<u>1560</u>	<u>WATER</u>				

Rec Total 1740 BHT 112 Gravity - API RW .18 @ 63 °F Chlorides 44000 ppm

(A) Initial Hydrostatic <u>1857</u>	<input checked="" type="checkbox"/> Test 1150	T-On Location <u>1445</u>
(B) First Initial Flow <u>823</u>	<input checked="" type="checkbox"/> Jars 250	T-Started <u>1530</u>
(C) First Final Flow <u>938</u>	<input checked="" type="checkbox"/> Safety Joint 75	T-Open <u>1700</u>
(D) Initial Shut-In <u>1206</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>1910</u>
(E) Second Initial Flow <u>967</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>2128</u>
(F) Second Final Flow <u>1022</u>	<input checked="" type="checkbox"/> Mileage <u>32RT</u> 49.60	Comments _____
(G) Final Shut-In <u>1206</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1750</u>	<input checked="" type="checkbox"/> Straddle 600	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Open <u>5</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Flow <u>5</u>	<input type="checkbox"/> Day Standby	Total <u>2124.60</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Accessibility	MP/DST Disc't _____
	Sub Total <u>2124.60</u>	

Approved By R. Hendrix Our Representative RAY SCHWAGER Thank you

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.



QUALITY OILWELL CEMENTING, INC.
 PO Box 32 - 740 West Wichita Ave, Russell KS 67665
 Phone: 785-324-1041 fax: 785-483-1087
 Email: cementing@ruraltel.net

PROD COPY

Date: 1/19/2013
 Invoice # 6292

P.O.#:
 Due Date: 2/18/2013
 Division: Russell

OPERATOR PAY MDC Invoice

LEASE: Schwind
unit 1-36
pn

USED FOR _____
 APPROVED _____

Contact:
 Murfin Drilling Company
 Address/Job Location:
 Murfin Drilling Company
 P.O. Box 288
 Russell Ks 67665

Reference:
 SCHWIND 1-36

Description of Work:
 LONG SURFACE JOB

ID203 3. 7475.000 11600.67 Cement S. (sg.) #1-36

Services / Items Included:

- Labor
- Common-Class A
- Bulk Truck Matl-Material Service Charge
- Calcium Chloride
- Flo Seal
- Premium Gel (Bentonite)
- Pump Truck Mileage-Job to Nearest Camp
- 8 5/8" Top Rubber Plug
- Baffle Plate Aluminum, 8 5/8"
- Bulk Truck Mileage-Job to Nearest Bulk Plant

Account	Quantity	Price	W/L	No.	Amount	Description	Price	Taxable
		\$.991.39	No					
625		\$ 8,509.29	Yes					
660		\$ 1,433.14	No					
22		\$ 1,138.39	Yes					
112		\$ 243.20	Yes					
12		\$ 212.11	Yes					
15		\$ 162.53	No					
1		\$ 115.09	Yes					
1		\$ 97.71	Yes					
15		\$ 95.11	No					

Invoice Terms:

Net 30

SubTotal: \$ 12,997.95
 Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (1,949.69)

SubTotal for Taxable Items: \$ 8,768.42
 SubTotal for Non-Taxable Items: \$ 2,279.84

6.30% Ellis County Sales Tax

Total: \$ 11,048.26
 Tax: \$ 552.41

Thank You For Your Business!

Amount Due: \$ 11,600.67

Applied Payments:

Balance Due: \$ 11,600.67

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

RECEIVED

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

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

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

No. 6292

Date	Sec.	Twp.	Range	County	State	On Location	Finish
1-16-13	36	15	19	ELLIS	KANSAS		2:00 pm

Location SCHOENSCHEN - 4 W' S/T INTO

Lease <u>MURFIN #2</u>	Well No. <u>#1-36</u>	Owner <u>MURFIN DRILLING</u>
Contractor <u>SCHWIND</u>	To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.	
Type Job <u>L. SURFACE</u>	Charge To <u>MURFIN DRILLING</u>	
Hole Size <u>12 1/4"</u>	T.D. <u>1193'</u>	Street <u>250 N WATER - STE 300</u>
Csg. <u>8 7/8</u>	Depth <u>1191'</u>	City <u>WICHITA</u> State <u>KS, 67202</u>
Tbg. Size	Depth	The above was done to satisfaction and supervision of owner agent or contractor.
Tool	Depth	Cement Amount Ordered <u>450 com - 3cc - 2 1/2 GEL - 4 ELW</u>
Cement Left in Csg.	Shoe Joint <u>41.15</u>	Meas Line Displace <u>73 BbLS</u> <u>175 com - 3cc - 2 1/2 GEL - 1025 TOTAL</u>

EQUIPMENT

Pumptrk <u>#15</u> No. Cementer <u>NICK</u>	Common <u>625</u>
Bulktrk <u>#13</u> No. Driver <u>LONNIE W.</u>	Poz. Mix
Bulktrk <u>PLU</u> No. Driver <u>CISCO</u>	Gel. <u>12</u>
	Calcium <u>22</u>

JOB SERVICES & REMARKS

Remarks: <u>Q.O.C. HEADMAN FOLD ON LOC.</u>	Hulls
Rat Hole	Salt
Mouse Hole	Flowseal <u>112</u>
Centralizers	Kol-Seal
Baskets	Mud CLR 48
D/V or Port Collar	CFL-117 or CD110 CAF 38
	Sand
	Handling <u>660</u>
	Mileage

CEMENT DID NOT CIRCULATE!
RAN 75 FT 1 INCH TAGGED CEMENT
MIXED & PUMPED ADDITIONAL
175 SKS COM 3cc 2 1/2 GEL TO BEING
CEMENT TO SURFACE - CEMENT
DID NOT REACH SURFACE - LET CELLAR
SIT 15 MIN. FLUID DID NOT FALL
1 INCH DONE @ 5:00 PM

FLOAT EQUIPMENT

Guide Shoe
Centralizer
Baskets
AFU Inserts
Float Shoe
Latch Down
1- 8 7/8" RUBBER PLUG
1- 8 7/8" BAFFLE PLATE

Pumptrk Charge <u>Long Surface</u>
Mileage <u>15</u>

THANK YOU!

X Signature Arturo Cabales

Tax
Discount
Total Charge

Acct. Prod. - LIZH

Date: 1/26/2013
Invoice # 6402
P.O.#:
Due Date: 2/25/2013
Division: Russell



QUALITY OILWELL CEMENTING, INC.
PO Box 32 - 740 West Wichita Ave, Russell KS 67665
Phone: 785-324-1041 fax: 785-483-1087
Email: cementing@ruraltel.net

Invoice

Contact:
Murfin Drilling Company
Address/Job Location:
Murfin Drilling Company
P.O. Box 288
Russell Ks 67665

USED FOR _____
APPROVED _____

OPERATOR PAY MDC
LEASE: Schwind
Unit 1-36
[Signature]

Reference:
SCHWIND 1-36

Description of Work:
PLUG JOB

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 1,239.23	Yes				
Common-Class A	135	\$ 1,838.01	Yes				
Bulk Truck Matl-Material Service Charge	233	\$ 505.94	Yes				
POZ Mix-Standard	90	\$ 449.49	Yes				
Pump Truck Mileage-Job to Nearest Camp	15	\$ 162.53	Yes				
Premium Gel (Bentonite)	8	\$ 141.40	Yes				
Flo Seal	50	\$ 108.57	Yes				
Bulk Truck Mileage-Job to Nearest Bulk Plant	15	\$ 95.11	Yes				
Dry Hole Plug	1	\$ 60.80	Yes				

Invoice Terms:
Net 30

SubTotal: \$ 4,601.08
Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (690.16)

SubTotal for Taxable Items: \$ 3,910.92
SubTotal for Non-Taxable Items: \$ -

6.30% Ellis County Sales Tax

Thank You For Your Business!

Total: \$ 3,910.92
Tax: \$ 246.39

Amount Due: \$ 4,157.31
Applied Payments:
Balance Due: \$ 4,157.31

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

[Handwritten signature]

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

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

No. 6402

Phone 785-483-2025

Cell 785-324-1041

Date	1-22-13	Sec.	36	Twp.	15	Range	19	County	ELLIS	State	KANSAS	On Location		Finish	6:00pm
								Location							
								SCHOENSCHEN-4W-S/INTO							

Lease	SCHWIND	Well No.	#1-36	Owner	MURKIN DEWILLING
Contractor	MURKIN#2	To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.			
Type Job	P.T.A	Charge To	MURKIN DEWILLING		
Hole Size	7 1/8"	T.D.	3,673'	Street	250 N. WATER ST. SUITE 300
Csg.	4 1/2	Depth		City	WICHITA
Tbg. Size		Depth		State	KS, 67202
Tool		Depth		The above was done to satisfaction and supervision of owner agent or contractor.	
Cement Left in Csg.		Shoe Joint		Cement Amount Ordered	225 @ 40-48 GEL

Meas Line	Displace	Common	135
EQUIPMENT		Poz. Mix	90
Pumptrk #15	No. Cementer	Gel.	8
	Helper NICK	Calcium	
Bulktrk #1	No. Driver	Hulls	
	Driver HEATH	Salt	
Bulktrk DW	No. Driver	Flowseal	50#
	Driver CISCO	Kol-Seal	

JOB SERVICES & REMARKS		Mud CLR 48
Remarks:		CFL-117 or CD110 CAF 38
Rat Hole		Sand
Mouse Hole		Handling
Centralizers		Mileage
Baskets		
D/V or Port Collar		

1st @ 3550'	50 SKS	FLOAT EQUIPMENT	
3rd @ 1240'	50 SKS	Guide Shoe	
4th @ 480'	80 SKS	Centralizer	
5th @ 40'	10 SKS	Baskets	
RAT HOLE	30 SKS	AFU Inserts	
MOUSEHOLE	15 SKS	Float Shoe	

THANK YOU!		Latch Down	1-8 5/8 WOODEN PLUG
		Pumptrk Charge	plug
		Mileage	15

X Signature	Amuro Cabelas	Tax	
		Discount	
		Total Charge	

