



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1083163
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: _____

1083163

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
Ward Loyd, Commissioner
Thomas E. Wright, Commissioner

Sam Brownback, Governor

June 04, 2012

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

Re: ACO1
API 15-039-21146-00-00
Shaw 1-29
NW/4 Sec.29-05S-30W
Decatur County, Kansas

Dear Production Department:

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

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

Respectfully,
Leon Rodak

	MDCI Shaw #1-29 380' FNL 1400' FWL Sec. 29-5S-30W 2926' KB				May #1 Abercrombie Drlg Inc. C NE NW Sec. 20-5S-30W 2924' KB			Roulier #1 K & E Drlg Inc NW NW NW Sec. 19-5S-30W 2950' KB		
Formation	Sample top	Datum	Log Top	Datum	Ref	Log Top	Datum	Ref	Log Top	Datum
Anhydrite	2627	+299	2926	+300	+19	2643	+281	+7	2657	+293
B/Anhydrite	2664	+262	2660	+266	+21	2679	+245	+11	2695	+255
Topeka	3737	-811	3734	-808	+14	3746	-822	+5	3763	-813
Heebner	3907	-981	3906	-980	+16	3920	-996	+4	3934	-984
Lansing	3954	-1028	3954	-1028	+15	3967	-1043	+5	3983	-1033
Stark	4124	-1198	4121	-1195	+15	4134	-1210	Flat	4146	-1195
BKC	4178	-1252	4173	-1247	+22	4193	-1269	+3	4206	-1250
Pawnee	4267	-1341	4277	-1351	NA	NDE		+4	4306	-1356
Cherokee	4362	-1436	4362	-1436	NA	NDE		+10	4396	-1446
Mississippi	4496	-1570	4498	-1572	NA	NDE		-11	4511	-1561
RTD	4550					4200			4531	
LTD			4550			4199			4530	

LITHOLOGY STRIP LOG

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

Well Name: **Murfin Drilling Company, Inc. Shaw #1-29**
 Location: **Approx. SW 1/4 NWNE NW Section 29-T5S-R30W**
 License Number: **API: 15-039-21146**
 Spud Date: **March 10, 2012**
 Surface Coordinates: **380' FNL 1400' FWL Section 29-T5S-R30W**

Region: **Decatur Co, KS**
 Completed: **March 20, 2012**

Bottom Hole Coordinates: **2921**
 Ground Elevation (ft): **2921**
 Logged Interval (ft): **3600 To: 4550 Total Depth (ft): 4550**
 Formation: **RTD 4550 (-1624), LTD 4550 (-1624).**
 Type of Drilling Fluid: **Chemical. Displaced at 3,260'.**

OPERATOR

Company: **Murfin Drilling Company, Inc.**
 Address: **250 N Water STE 300
Wichita, KS 67202-1216**

GEOLOGIST

Name: **Mikeal K. Maune**
 Company: **Petroleum Geologist - Kansas Licensed No. 210**
 Address: **Wichita, Kansas
Office: 316-722-8173**

COMMENTS

Surface Casing: 8 5/8" Csg set @ 282' w/225x. **COMM (3%CC 2% Gel).**
 D&A. Plugging complete @ 6:30 pm 3/21/2012.
 Deviation Surveys: 1/4 @ 282', 1/4 @ 1284', 1/4 @ 2297', 3/4 @ 3489', 3/4 @ 3988', 3/4 @ 4550 RTD.
 Pipe Strap @ 3988'. Strap 3999.24', Board 3999.23', Strap long to Board .01'.

Murfin Drilling Rig #16 Bit Record:
 #1 12 1/4" GT-C1 RR in @ GL, out @ 282'.
 #2 7 7/8" Smith F124 in @ 222', out @ 4249'.
 #3 7 7/8" HC GX20C in @ 4249', out @ 4550'.

Mud System: Morgan Mud, Inc.
 DSTs: Trilobite Testing Inc. (5 DSTs)
 OH Logging: Log-Tech, DIL, MEL, CNL/CDDL, BHCS.

Correlation of the OH Log with the Drilling Time indicates OH Log depths & Drilling Time formation depths are approximately equal. The Gamma ray curve was imported directly into this log without any depth adjustments.

OH Log Formation Tops: Anhydrite 2626 (+300), Base Anhydrite 2660 (-266), Topoka 3734 (-808), Heebner 3906 (-980), Toronto 3939 (-1013), Lansing 3955 (-1029), Stark 4121 (-1195), BKC 4172 (-1246), Marmaton 4200 (-1274), Pawnee 4277 (-1351), L Pawnee 4319 (-1393), FT Scott 4350 (-1424), Cherokee 4362 (-1436), Sst 4381 (-1455), Miss Cht 4498 (-1572), RTD 4550 (-1624), LTD 4550 (-1624).

DSTs

DST #1 (Toronto, LKC 'A' & 'B') 3906-3988/30-60-30-60. Slid Tool 10' to bottom. 1st Op: Weak SB increase to 1/2 inch. 2nd Op: No Blow. Recover: 60' Oil specked Mud. IH 1915#, IFP 22-47#, ISIP 1260#, FFP 51-73#, FSIP 1245#, FH 1860#, BHT 115 F.

DST #2 (LKC 'F') 4009-4025/30-60-30-60. 1st Op: Weak SB increase to 1/8 inch. 2nd Op: No Blow. Recover: 5' Oil specked Mud. IH 1994#, IFP 18-20#, ISIP 46#, FFP 20-20#, FSIP 32#, FH 1995#, BHT 116 F.

DST #3 (LKC 'J') 4084-4124/30-60-30-60. 1st Op: Weak SB increase to 1/4 inch. 2nd Op: No Blow. Recover: 5' Mud. IH 2034#, IFP 22-23#, ISIP 40#, FFP 25-25#, FSIP 36#, FH 2059#, BHT 116 F.

DST #4 (LKC 'K' & 'L') 4118-4180/30-60-30-60. 1st Op: Weak SB increase to 1/2 inch. 2nd Op: No Blow. Recover: 5' Oil spkd Mud. IH 2060#, IFP 22-24#, ISIP 61#, FFP 24-25#, FSIP 44#, FH 2011#, BHT 115 F.

DST #5 (Celia Sst) 4356-4390/30-60-30-60. 1st Op: 1/4" Blow increase to 1 inch. 2nd Op: Surface Blow increase to 1/4". Recover: 1 ft FO, 24' OCM (5%Oil, 95% M). IH 2152#, IFP 21-30#, ISIP 1023#, FFP 33-38#, FSIP 854#, FH 2193#, BHT 119 F.

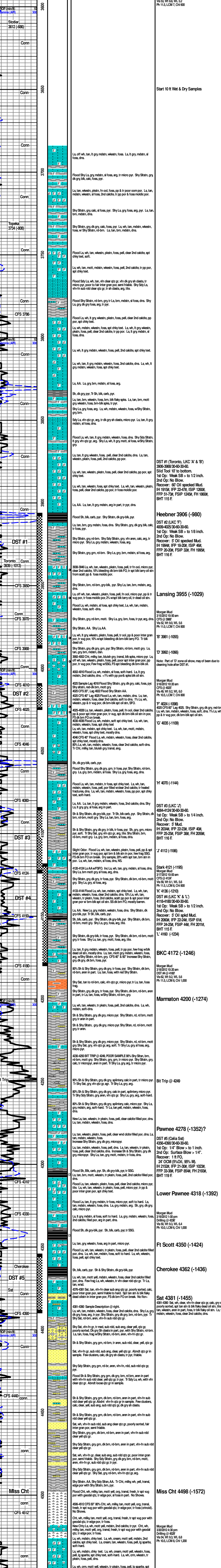
ROCK TYPES

- | | | | |
|-------|----------|-------|-----------|
| Anhy | Congl | Lmst | Black sh |
| Bent | Sdy dolo | Salt | Gry sh |
| Brec | Dol | Shale | Shy sltst |
| Cht | Gyp | Sst | Sitysh |
| Clyst | Sdy lmst | | |
| Coal | | | |

ACCESSORIES

- | | | |
|----------|-----------|----------|
| Chlorite | Pelec | Grysh |
| Dol | Pelloidal | Gryslt |
| Sand | Pisolite | Lms |
| Silty | Plant | Sandylms |
| | Strom | Sh |
| | Fuss | Shtstn |
| | Oomoldic | |

- | | | |
|------------------|------------------|------------------|
| MINERAL Anhy | STRINGER Anhy | BOUNDST Chalky |
| MINERAL Arg | STRINGER Arg | BOUNDST Cryxln |
| MINERAL Bent | STRINGER Bent | BOUNDST Earthy |
| MINERAL Bit | STRINGER Coal | BOUNDST Finexin |
| MINERAL Brecfrag | STRINGER Dol | BOUNDST Grainst |
| MINERAL Calc | STRINGER Gyp | BOUNDST Lithogr |
| MINERAL Carb | STRINGER Ls | BOUNDST Microxin |
| MINERAL Chtdk | STRINGER Mrst | BOUNDST Mudst |
| MINERAL Chtl | STRINGER Sststrg | BOUNDST Packet |
| MINERAL Dol | STRINGER Sststrg | BOUNDST Wackest |
| MINERAL Ferrpel | STRINGER Carbsh | |
| MINERAL Ferr | STRINGER Dol | |
| MINERAL Glau | | |
| MINERAL Gyp | | |
| MINERAL Marl | | |
| MINERAL Nodule | | |
| MINERAL Phos | | |
| MINERAL Pyr | | |
| MINERAL Salt | | |
| MINERAL Sandy | | |
| MINERAL Silty | | |





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co.**

250 N. Water STE 300
Wichita, KS 67202

ATTN: Mike Maune

Shaw #1-29

29-5s-30w Decatur,KS

Start Date: 2012.03.15 @ 17:26:00

End Date: 2012.03.16 @ 00:25:45

Job Ticket #: 45622 DST #: 1

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

Printed: 2012.03.21 @ 15:00:10



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co.
250 N. Water STE 300
Wichita, KS 67202
ATTN: Mike Maune

29-5s-30w Decatur, KS
Shaw #1-29
Job Ticket: 45622 **DST#: 1**
Test Start: 2012.03.15 @ 17:26:00

GENERAL INFORMATION:

Formation: **Toronto - LKC "A,B"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 19:35:00
Time Test Ended: 00:25:45
Interval: **3906.00 ft (KB) To 3988.00 ft (KB) (TVD)**
Total Depth: 3988.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Initial)
Tester: Kevin Mack
Unit No: 43
Reference Elevations: 2926.00 ft (KB)
2921.00 ft (CF)
KB to GR/CF: 5.00 ft

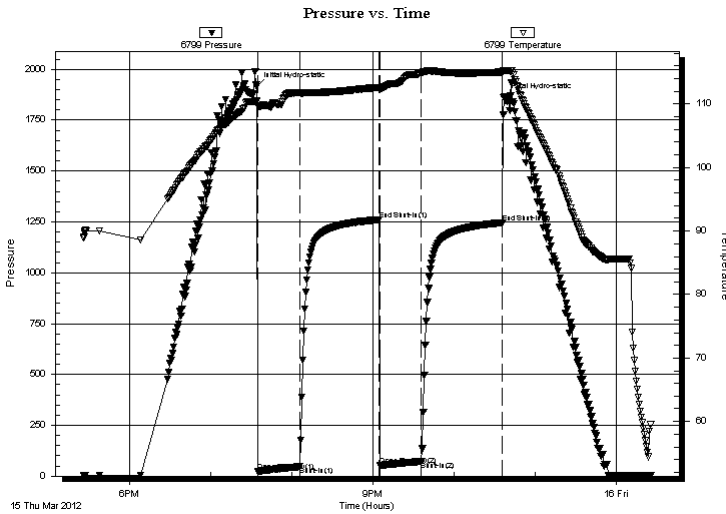
Serial #: 6799

Inside

Press @ Run Depth: 73.45 psig @ 3907.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2012.03.15 End Date: 2012.03.16 Last Calib.: 2012.03.16
Start Time: 17:26:05 End Time: 00:25:44 Time On Btm: 2012.03.15 @ 19:34:15
Time Off Btm: 2012.03.15 @ 22:36:45

TEST COMMENT: IF- Weak Surface blow built to 1/2"
IS- No Return
FF- No Blow
FS- No Return

PRESSURE SUMMARY



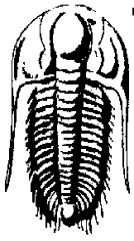
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1915.28	110.40	Initial Hydro-static
1	22.51	109.79	Open To Flow (1)
32	47.92	111.75	Shut-In(1)
90	1260.23	112.63	End Shut-In(1)
91	51.83	112.37	Open To Flow (2)
122	73.45	114.96	Shut-In(2)
182	1245.71	115.04	End Shut-In(2)
183	1860.77	115.29	Final Hydro-static

Recovery

Gas Rates

Length (ft)	Description	Volume (bbl)
60.00	OSM 100M (oil spots)	0.30

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: Mike Maune

29-5s-30w Decatur, KS

Shaw #1-29

Job Ticket: 45622 **DST#: 1**

Test Start: 2012.03.15 @ 17:26:00

GENERAL INFORMATION:

Formation: **Toronto - LKC "A,B"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:35:00

Time Test Ended: 00:25:45

Test Type: Conventional Bottom Hole (Initial)

Tester: Kevin Mack

Unit No: 43

Interval: 3906.00 ft (KB) To 3988.00 ft (KB) (TVD)

Reference Elevations: 2926.00 ft (KB)

Total Depth: 3988.00 ft (KB) (TVD)

2921.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8648 Inside

Press @ Run Depth: psig @ 3907.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.03.15 End Date: 2012.03.16

Last Calib.: 2012.03.16

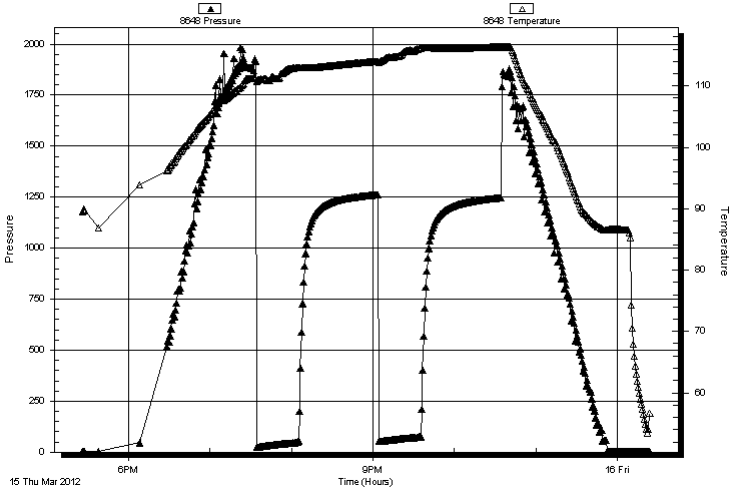
Start Time: 17:26:05 End Time: 00:24:14

Time On Btm:

Time Off Btm:

TEST COMMENT: IF- Weak Surface blow built to 1/2"
IS- No Return
FF- No Blow
FS- No Return

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
60.00	OSM 100M (oil spots)	0.30

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co.

29-5s-30w Decatur, KS

250 N. Water STE 300
Wichita, KS 67202

Shaw #1-29

Job Ticket: 45622

DST#: 1

ATTN: Mike Maune

Test Start: 2012.03.15 @ 17:26:00

Tool Information

Drill Pipe:	Length: 3703.00 ft	Diameter: 3.80 inches	Volume: 51.94 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 72000.00 lb
			<u>Total Volume: 52.83 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 65000.00 lb
Depth to Top Packer:	3906.00 ft			Final 65000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	82.00 ft			
Tool Length:	111.00 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			3878.00	
Shut In Tool	5.00			3883.00	
Hydraulic tool	5.00			3888.00	
Jars	5.00			3893.00	
Safety Joint	3.00			3896.00	
Packer	5.00			3901.00	29.00 Bottom Of Top Packer
Packer	5.00			3906.00	
Stubb	1.00			3907.00	
Recorder	0.00	8648	Inside	3907.00	
Recorder	0.00	6799	Inside	3907.00	
Perforations	12.00			3919.00	
Change Over Sub	1.00			3920.00	
Drill Pipe	62.00			3982.00	
Change Over Sub	1.00			3983.00	
Bullnose	5.00			3988.00	82.00 Bottom Packers & Anchor

Total Tool Length: 111.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co.

29-5s-30w Decatur,KS

250 N. Water STE 300
Wichita, KS 67202

Shaw #1-29

Job Ticket: 45622

DST#: 1

ATTN: Mike Maune

Test Start: 2012.03.15 @ 17:26:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.57 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 800.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	OSM 100M (oil spots)	0.295

Total Length: 60.00 ft Total Volume: 0.295 bbl

Num Fluid Samples: 0

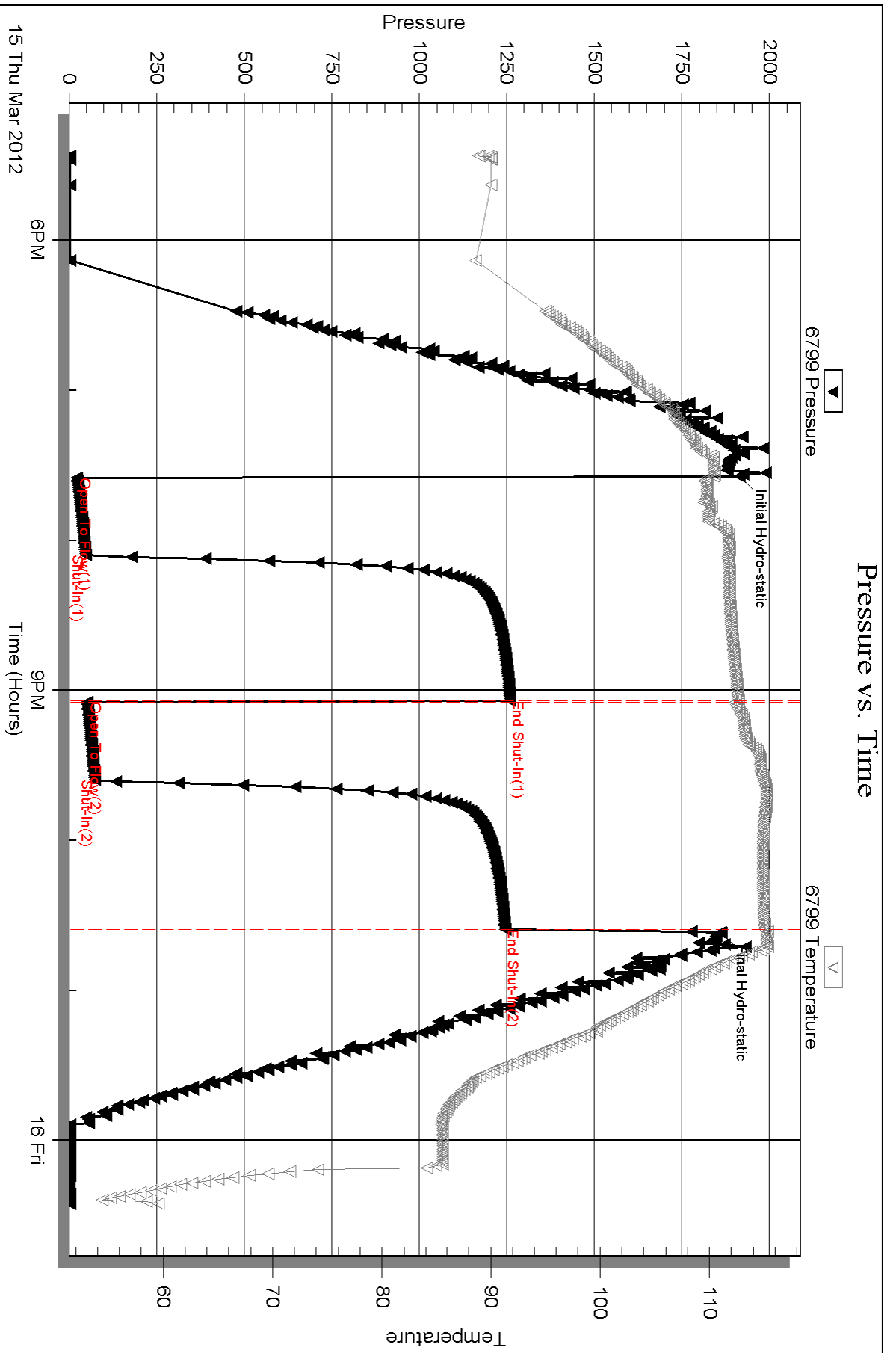
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



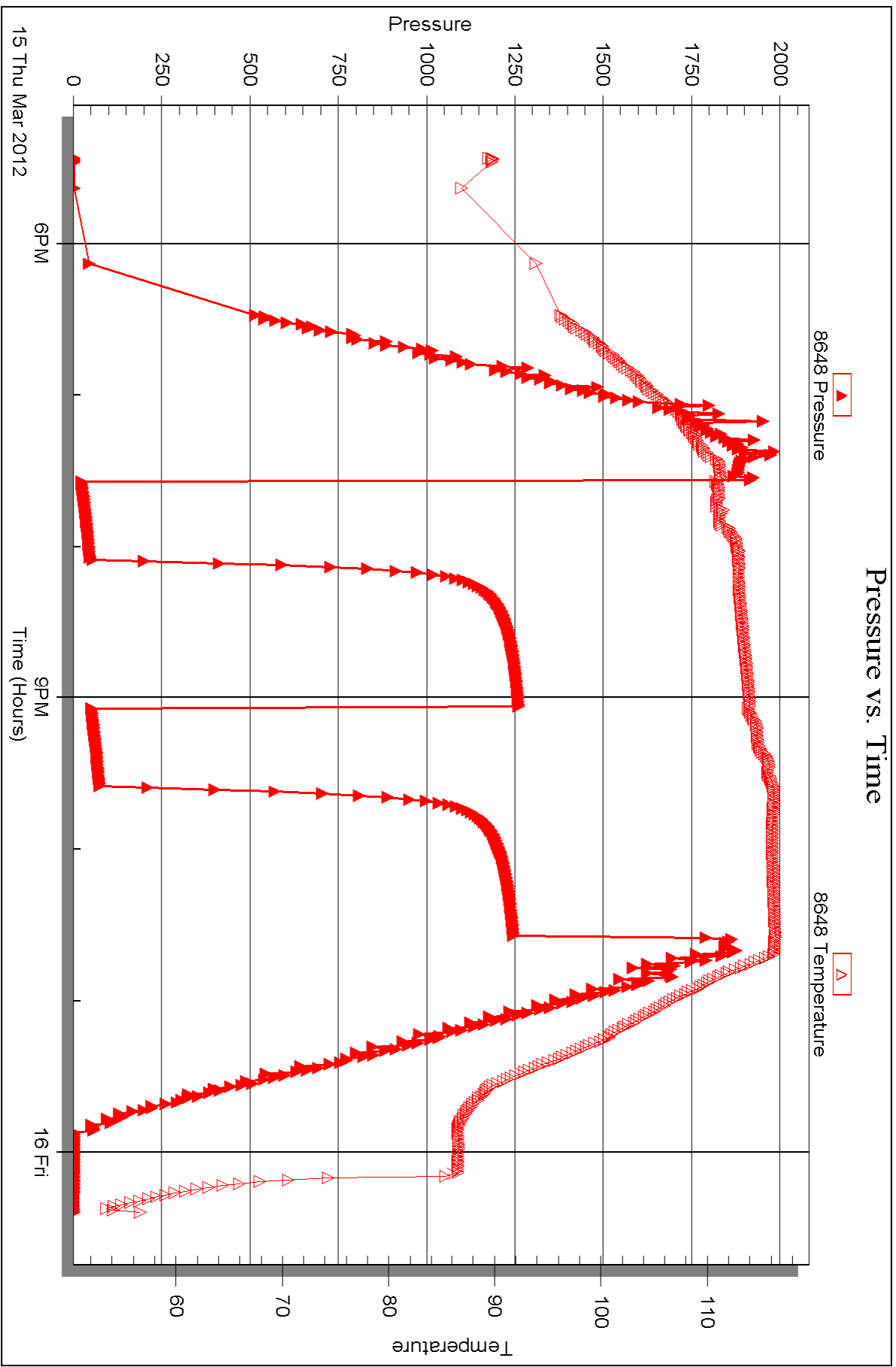
Serial #: 8648

Inside

Murfin Drilling Co.

Shaw #1-29

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co.**

250 N. Water STE 300
Wichita, KS 67202

ATTN: Mike Maune

Shaw #1-29

29-5s-30w Decatur,KS

Start Date: 2012.03.16 @ 10:32:00

End Date: 2012.03.16 @ 17:51:30

Job Ticket #: 45623 DST #: 2

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

Printed: 2012.03.21 @ 14:58:09



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co.
 250 N. Water STE 300
 Wichita, KS 67202
 ATTN: Mike Maune

29-5s-30w Decatur, KS
Shaw #1-29
 Job Ticket: 45623 **DST#: 2**
 Test Start: 2012.03.16 @ 10:32:00

GENERAL INFORMATION:

Formation: **LKC "F"**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 13:07:45 Tester: Kevin Mack
 Time Test Ended: 17:51:30 Unit No: 43
 Interval: **4009.00 ft (KB) To 4025.00 ft (KB) (TVD)** Reference Elevations: 2926.00 ft (KB)
 Total Depth: 4025.00 ft (KB) (TVD) 2921.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 5.00 ft

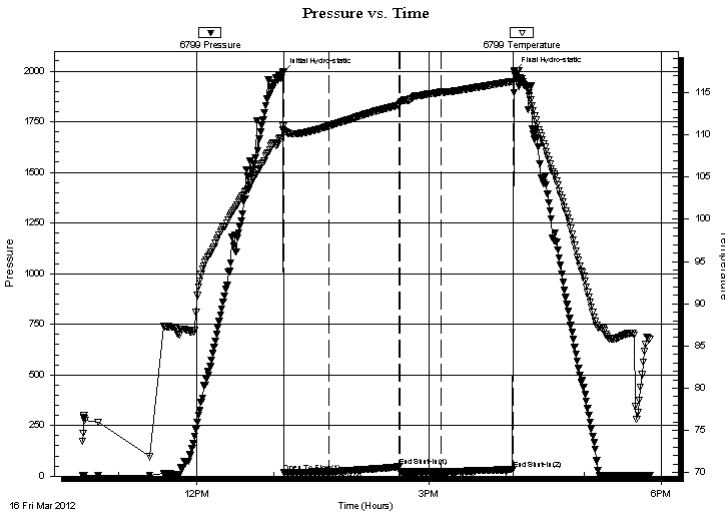
Serial #: 6799

Inside

Press @ Run Depth: 20.76 psig @ 4010.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.03.16 End Date: 2012.03.16 Last Calib.: 2012.03.18
 Start Time: 10:32:05 End Time: 17:51:29 Time On Btm: 2012.03.16 @ 13:07:15
 Time Off Btm: 2012.03.16 @ 16:06:00

TEST COMMENT: IF- Weak surface blow built to 1/8"
 IS- No Return
 FF- No Blow
 FS- No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1994.38	111.05	Initial Hydro-static
1	18.42	110.51	Open To Flow (1)
36	20.90	111.08	Shut-In(1)
90	46.32	113.55	End Shut-In(1)
91	20.75	113.68	Open To Flow (2)
123	20.76	115.10	Shut-In(2)
178	32.67	116.35	End Shut-In(2)
179	1995.79	117.62	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	OSM 100M (oil spots)	0.02

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: Mike Maune

29-5s-30w Decatur, KS
Shaw #1-29
Job Ticket: 45623 **DST#: 2**
Test Start: 2012.03.16 @ 10:32:00

GENERAL INFORMATION:

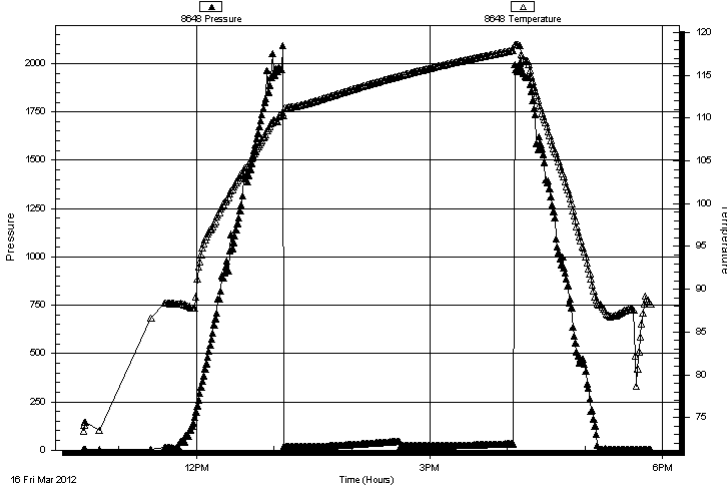
Formation: **LKC "F"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 13:07:45
Time Test Ended: 17:51:30
Interval: **4009.00 ft (KB) To 4025.00 ft (KB) (TVD)**
Total Depth: 4025.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches
Hole Condition: Good
Test Type: Conventional Bottom Hole (Initial)
Tester: Kevin Mack
Unit No: 43
Reference Elevations: 2926.00 ft (KB)
2921.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8648 Inside

Press@RunDepth: psig @ 4010.00 ft (KB)
Start Date: 2012.03.16 End Date: 2012.03.16 Capacity: 8000.00 psig
Start Time: 10:32:50 End Time: 17:50:29 Last Calib.: 2012.03.18
Time On Btm:
Time Off Btm:

TEST COMMENT: IF- Weak surface blow built to 1/8"
IS- No Return
FF- No Blow
FS- No Return

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
5.00	OSM 100M (oil spots)	0.02

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co.

29-5s-30w Decatur,KS

250 N. Water STE 300
Wichita, KS 67202

Shaw #1-29

Job Ticket: 45623

DST#: 2

ATTN: Mike Maune

Test Start: 2012.03.16 @ 10:32:00

Tool Information

Drill Pipe:	Length: 3826.00 ft	Diameter: 3.80 inches	Volume: 53.67 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 68000.00 lb
			<u>Total Volume: 54.56 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4009.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	16.00 ft			
Tool Length:	45.00 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			3981.00	
Shut In Tool	5.00			3986.00	
Hydraulic tool	5.00			3991.00	
Jars	5.00			3996.00	
Safety Joint	3.00			3999.00	
Packer	5.00			4004.00	29.00 Bottom Of Top Packer
Packer	5.00			4009.00	
Stubb	1.00			4010.00	
Recorder	0.00	8648	Inside	4010.00	
Recorder	0.00	6799	Inside	4010.00	
Perforations	10.00			4020.00	
Bullnose	5.00			4025.00	16.00 Bottom Packers & Anchor

Total Tool Length: 45.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co.

29-5s-30w Decatur,KS

250 N. Water STE 300
Wichita, KS 67202

Shaw #1-29

Job Ticket: 45623

DST#: 2

ATTN: Mike Maune

Test Start: 2012.03.16 @ 10:32:00

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: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.98 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 800.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	OSM 100M (oil spots)	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

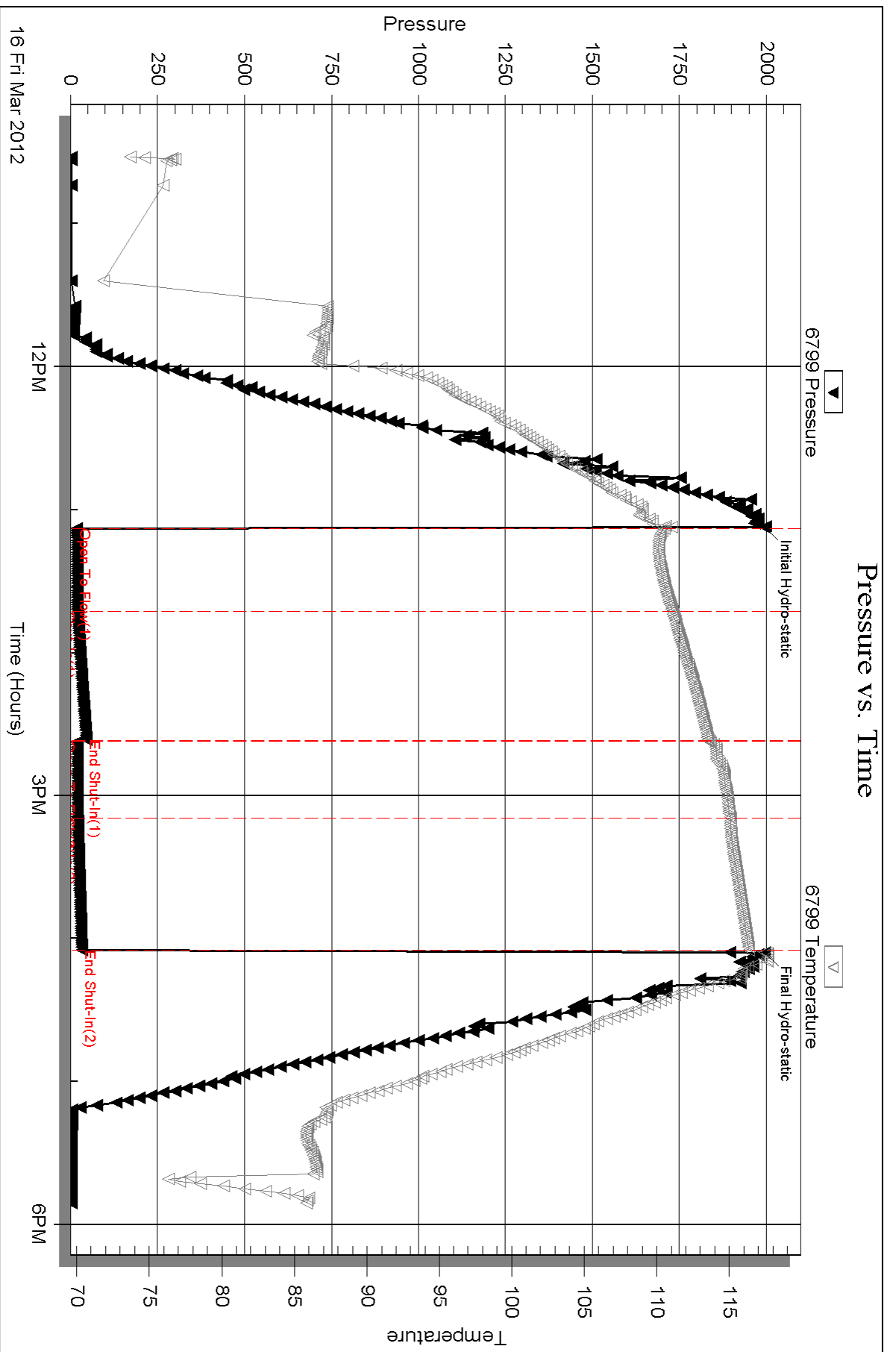
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



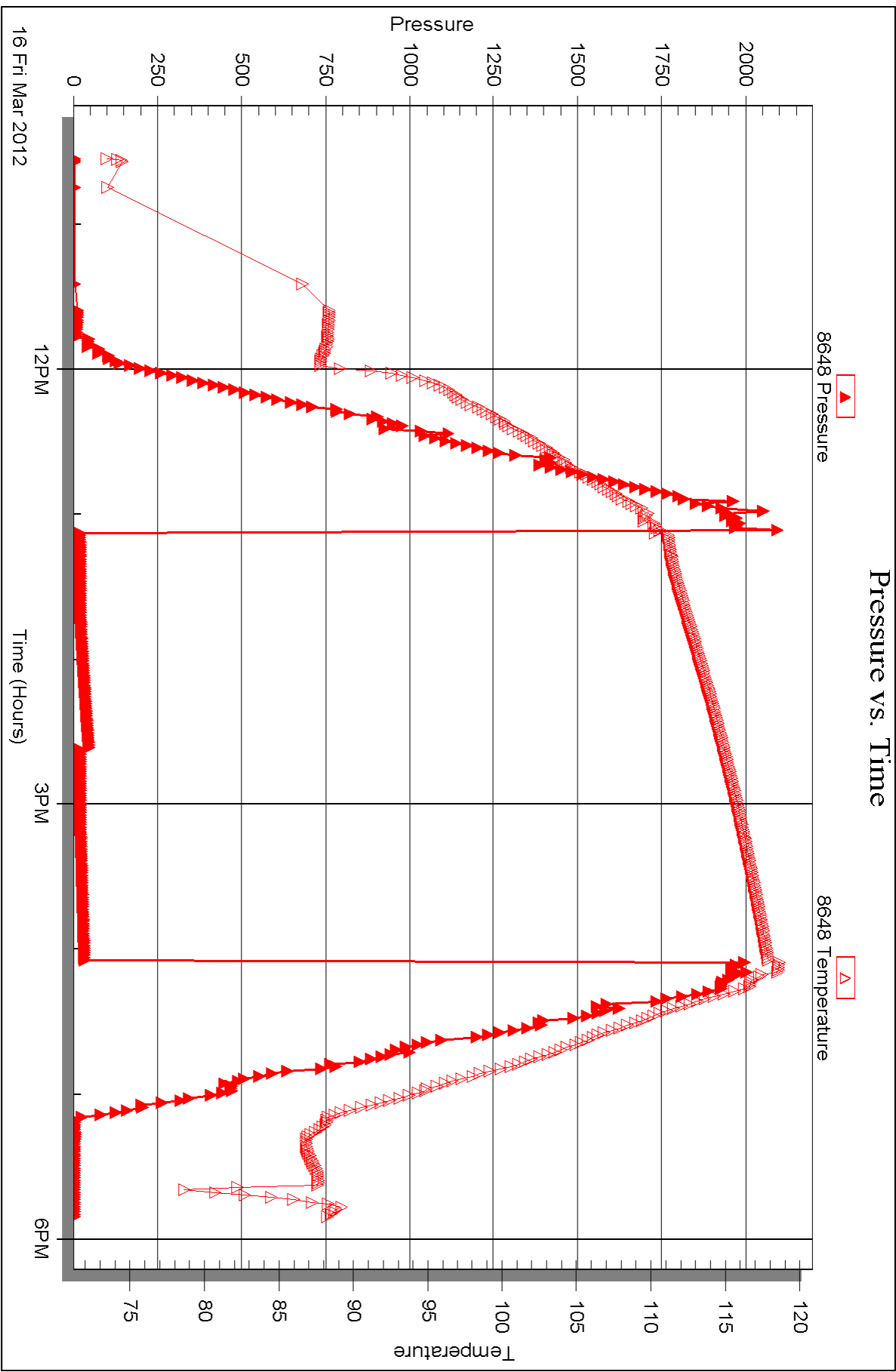
Serial #: 8648

Inside

Murfin Drilling Co.

Shaw #1-29

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co.**

250 N. Water STE 300
Wichita, KS 67202

ATTN: Mike Maune

Shaw #1-29

29-5s-30w Decatur,KS

Start Date: 2012.03.17 @ 08:50:00

End Date: 2012.03.17 @ 16:47:15

Job Ticket #: 45624 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.03.21 @ 14:56:08



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co.
250 N. Water STE 300
Wichita, KS 67202
ATTN: Mike Maune

29-5s-30w Decatur, KS
Shaw #1-29
Job Ticket: 45624 **DST#: 3**
Test Start: 2012.03.17 @ 08:50:00

GENERAL INFORMATION:

Formation: **LKC "J"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 11:46:45
Time Test Ended: 16:47:15
Interval: **4084.00 ft (KB) To 4124.00 ft (KB) (TVD)**
Total Depth: 4124.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Initial)
Tester: Kevin Mack
Unit No: 43
Reference Elevations: 2926.00 ft (KB)
2921.00 ft (CF)
KB to GR/CF: 5.00 ft

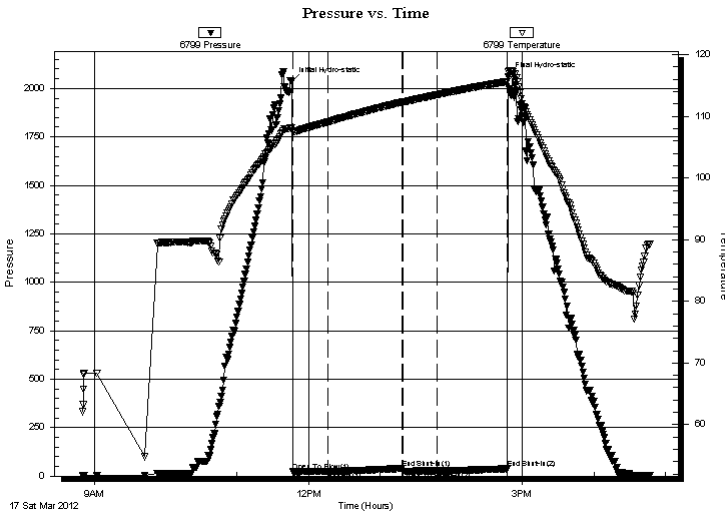
Serial #: 6799

Inside

Press @ Run Depth: 25.38 psig @ 4085.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2012.03.17 End Date: 2012.03.17 Last Calib.: 2012.03.17
Start Time: 08:50:05 End Time: 16:47:14 Time On Btm: 2012.03.17 @ 11:45:45
Time Off Btm: 2012.03.17 @ 14:47:45

TEST COMMENT: IF- Weak Surface blow built to 1/4"
IS- No Return
FF- No Blow
FS- No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2034.68	108.19	Initial Hydro-static
1	22.77	107.53	Open To Flow (1)
31	23.83	109.09	Shut-In(1)
93	40.01	112.30	End Shut-In(1)
94	25.41	112.30	Open To Flow (2)
122	25.38	113.47	Shut-In(2)
181	38.33	115.62	End Shut-In(2)
182	2059.12	117.19	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud 100M	0.02

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: Mike Maune

29-5s-30w Decatur, KS

Shaw #1-29

Job Ticket: 45624

DST#: 3

Test Start: 2012.03.17 @ 08:50:00

GENERAL INFORMATION:

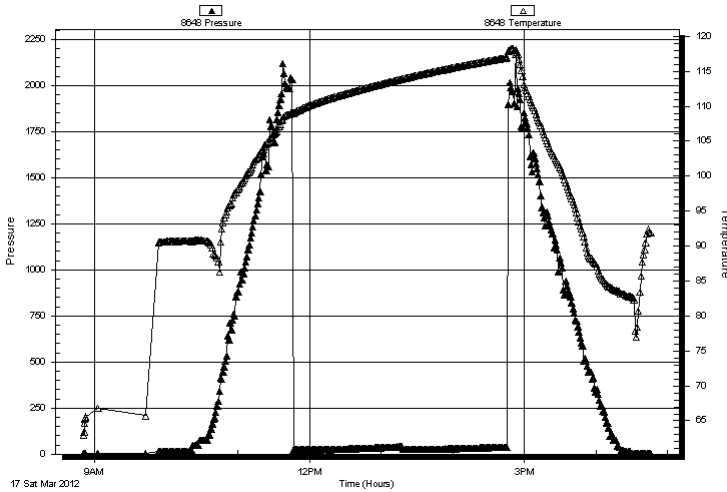
Formation: **LKC "J"**
 Deviated: **No Whipstock:** ft (KB)
 Test Type: **Conventional Bottom Hole (Initial)**
 Time Tool Opened: **11:46:45**
 Tester: **Kevin Mack**
 Time Test Ended: **16:47:15**
 Unit No: **43**
Interval: 4084.00 ft (KB) To 4124.00 ft (KB) (TVD)
 Reference Elevations: **2926.00 ft (KB)**
Total Depth: 4124.00 ft (KB) (TVD)
2921.00 ft (CF)
 Hole Diameter: **7.88 inches** Hole Condition: **Good**
 KB to GR/CF: **5.00 ft**

Serial #: 8648 **Inside**

Press @ Run Depth: **psig @ 4085.00 ft (KB)** Capacity: **8000.00 psig**
 Start Date: **2012.03.17** End Date: **2012.03.17** Last Calib.: **2012.03.17**
 Start Time: **08:50:50** End Time: **16:46:14** Time On Btm:
 Time Off Btm:

TEST COMMENT: IF- Weak Surface blow built to 1/4"
 IS- No Return
 FF- No Blow
 FS- No Return

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud 100M	0.02

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co.

29-5s-30w Decatur,KS

250 N. Water STE 300
Wichita, KS 67202

Shaw #1-29

Job Ticket: 45624

DST#: 3

ATTN: Mike Maune

Test Start: 2012.03.17 @ 08:50:00

Tool Information

Drill Pipe:	Length: 3890.00 ft	Diameter: 3.80 inches	Volume: 54.57 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose:	70000.00 lb
			<u>Total Volume: 55.46 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial	65000.00 lb
Depth to Top Packer:	4084.00 ft			Final	65000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	40.00 ft				
Tool Length:	69.00 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			4056.00	
Shut In Tool	5.00			4061.00	
Hydraulic tool	5.00			4066.00	
Jars	5.00			4071.00	
Safety Joint	3.00			4074.00	
Packer	5.00			4079.00	29.00 Bottom Of Top Packer
Packer	5.00			4084.00	
Stubb	1.00			4085.00	
Recorder	0.00	8648	Inside	4085.00	
Recorder	0.00	6799	Inside	4085.00	
Perforations	3.00			4088.00	
Change Over Sub	1.00			4089.00	
Drill Pipe	31.00			4120.00	
Change Over Sub	1.00			4121.00	
Bullnose	3.00			4124.00	40.00 Bottom Packers & Anchor

Total Tool Length: 69.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co.

29-5s-30w Decatur,KS

250 N. Water STE 300
Wichita, KS 67202

Shaw #1-29

Job Ticket: 45624

DST#: 3

ATTN: Mike Maune

Test Start: 2012.03.17 @ 08:50:00

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: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.98 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 800.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud 100M	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:

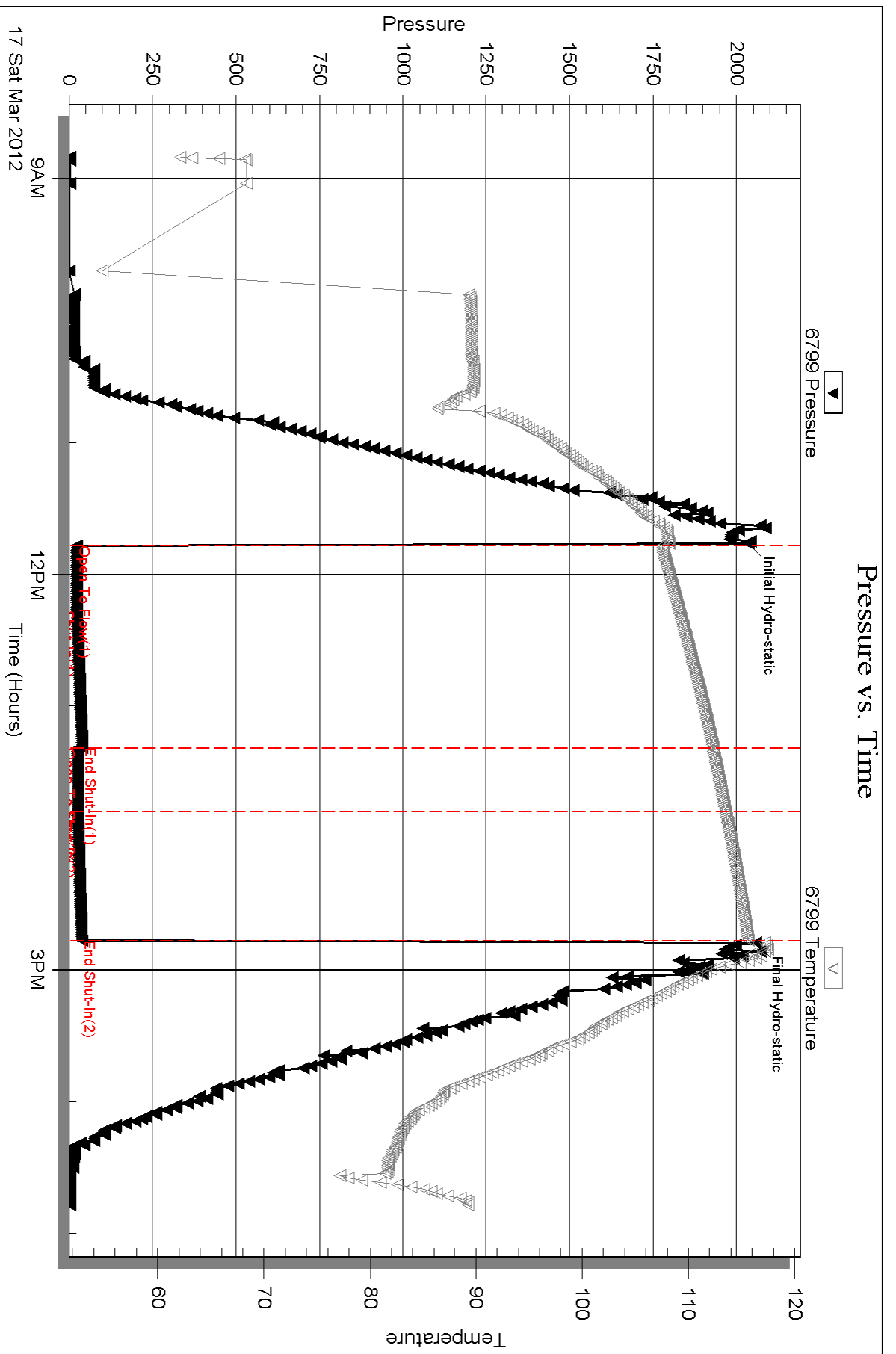
Serial #: 6799

Inside

Murfin Drilling Co.

Shaw #1-29

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 45624

Printed: 2012.03.21 @ 14:56:10

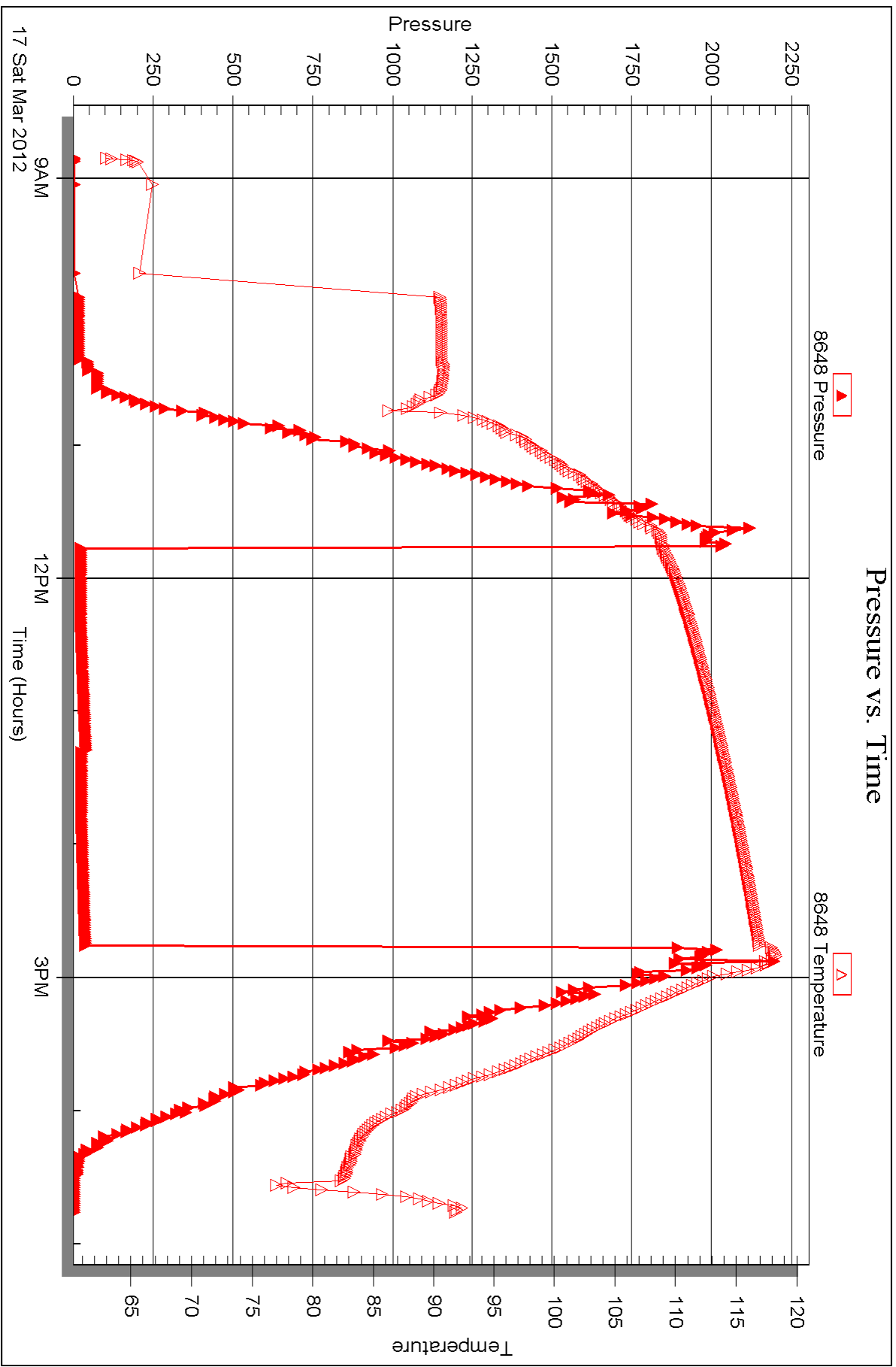
Serial #: 8648

Inside

Murfin Drilling Co.

Shaw #1-29

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 45624

Printed: 2012.03.21 @ 14:56:13



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co.**

250 N. Water STE 300
Wichita, KS 67202

ATTN: Mike Maune

Shaw #1-29

29-5s-30w Decatur,KS

Start Date: 2012.03.18 @ 04:22:00

End Date: 2012.03.18 @ 12:52:00

Job Ticket #: 46101 DST #: 4

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

Printed: 2012.03.21 @ 14:54:47



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co.
250 N. Water STE 300
Wichita, KS 67202
ATTN: Mike Maune

29-5s-30w Decatur, KS
Shaw #1-29
Job Ticket: 46101 **DST#: 4**
Test Start: 2012.03.18 @ 04:22:00

GENERAL INFORMATION:

Formation: **LKC "K-L"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 07:42:45
Time Test Ended: 12:52:00
Test Type: Conventional Bottom Hole (Initial)
Tester: Kevin Mack
Unit No: 43
Interval: **4118.00 ft (KB) To 4180.00 ft (KB) (TVD)**
Reference Elevations: 2926.00 ft (KB)
Total Depth: 4180.00 ft (KB) (TVD) 2921.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 5.00 ft

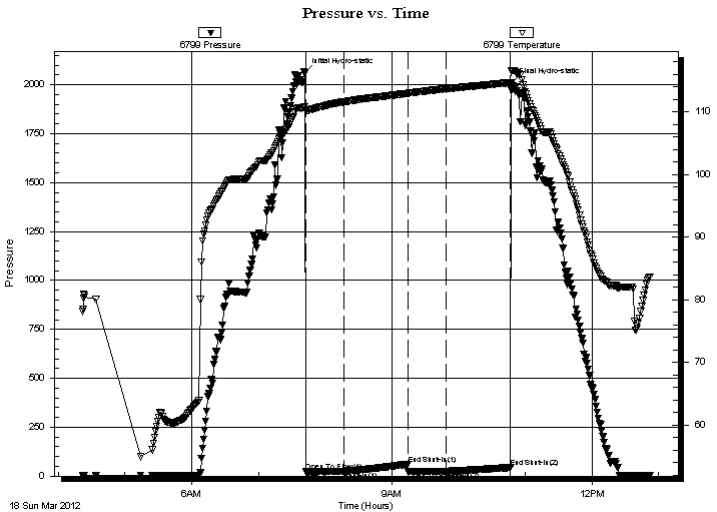
Serial #: 6799

Inside

Press @ Run Depth: 25.00 psig @ 4119.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2012.03.18 End Date: 2012.03.18 Last Calib.: 2012.03.18
Start Time: 04:22:05 End Time: 12:51:59 Time On Btm: 2012.03.18 @ 07:41:45
Time Off Btm: 2012.03.18 @ 10:48:00

TEST COMMENT: IF- Surface blow built to 1/2"
IS- No Return
FF- No Blow
FS- No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2060.52	110.82	Initial Hydro-static
1	22.56	110.18	Open To Flow (1)
35	24.68	111.59	Shut-In(1)
93	61.94	112.94	End Shut-In(1)
93	24.12	112.95	Open To Flow (2)
127	25.00	113.69	Shut-In(2)
185	44.46	114.67	End Shut-In(2)
187	2011.26	116.60	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	OSM 100M (oil spots)	0.02

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: Mike Maune

29-5s-30w Decatur, KS
Shaw #1-29
 Job Ticket: 46101 **DST#: 4**
 Test Start: 2012.03.18 @ 04:22:00

GENERAL INFORMATION:

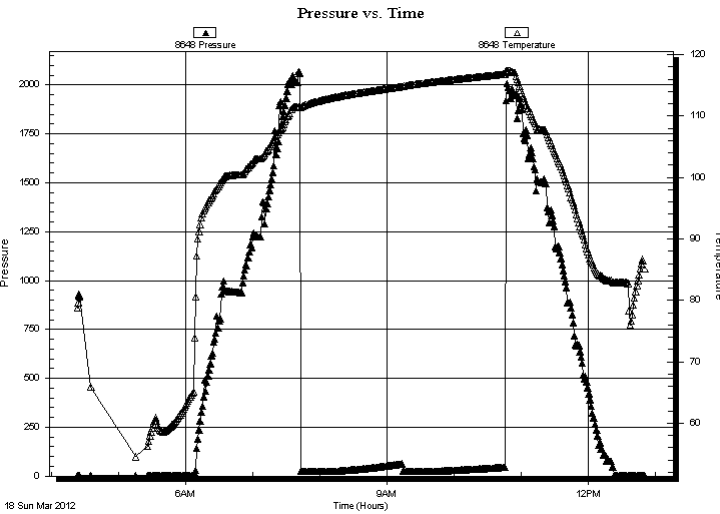
Formation: **LKC "K-L"**
 Deviated: **No Whipstock:** ft (KB) Test Type: **Conventional Bottom Hole (Initial)**
 Time Tool Opened: 07:42:45 Tester: **Kevin Mack**
 Time Test Ended: 12:52:00 Unit No: **43**
Interval: 4118.00 ft (KB) To 4180.00 ft (KB) (TVD) Reference Elevations: **2926.00 ft (KB)**
 Total Depth: **4180.00 ft (KB) (TVD)** **2921.00 ft (CF)**
 Hole Diameter: **7.88 inches** Hole Condition: **Good** KB to GR/CF: **5.00 ft**

Serial #: 8648

Inside

Press @ Run Depth: psig @ **4119.00 ft (KB)** Capacity: **8000.00 psig**
 Start Date: **2012.03.18** End Date: **2012.03.18** Last Calib.: **2012.03.18**
 Start Time: **04:23:05** End Time: **12:51:14** Time On Btm:
 Time Off Btm:

TEST COMMENT: IF- Surface blow built to 1/2"
 IS- No Return
 FF- No Blow
 FS- No Return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
5.00	OSM 100M (oil spots)	0.02

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co.

29-5s-30w Decatur,KS

250 N. Water STE 300
Wichita, KS 67202

Shaw #1-29

Job Ticket: 46101

DST#: 4

ATTN: Mike Maune

Test Start: 2012.03.18 @ 04:22:00

Tool Information

Drill Pipe:	Length: 3917.00 ft	Diameter: 3.80 inches	Volume: 54.95 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 82000.00 lb
			<u>Total Volume: 55.84 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	4118.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	62.00 ft			
Tool Length:	91.00 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			4090.00	
Shut In Tool	5.00			4095.00	
Hydraulic tool	5.00			4100.00	
Jars	5.00			4105.00	
Safety Joint	3.00			4108.00	
Packer	5.00			4113.00	29.00 Bottom Of Top Packer
Packer	5.00			4118.00	
Stubb	1.00			4119.00	
Recorder	0.00	8648	Inside	4119.00	
Recorder	0.00	6799	Inside	4119.00	
Perforations	22.00			4141.00	
Change Over Sub	1.00			4142.00	
Drill Pipe	32.00			4174.00	
Change Over Sub	1.00			4175.00	
Bullnose	5.00			4180.00	62.00 Bottom Packers & Anchor

Total Tool Length: 91.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co.

29-5s-30w Decatur,KS

250 N. Water STE 300
Wichita, KS 67202

Shaw #1-29

Job Ticket: 46101

DST#: 4

ATTN: Mike Maune

Test Start: 2012.03.18 @ 04:22:00

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: 59.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.58 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 800.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	OSM 100M (oil spots)	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

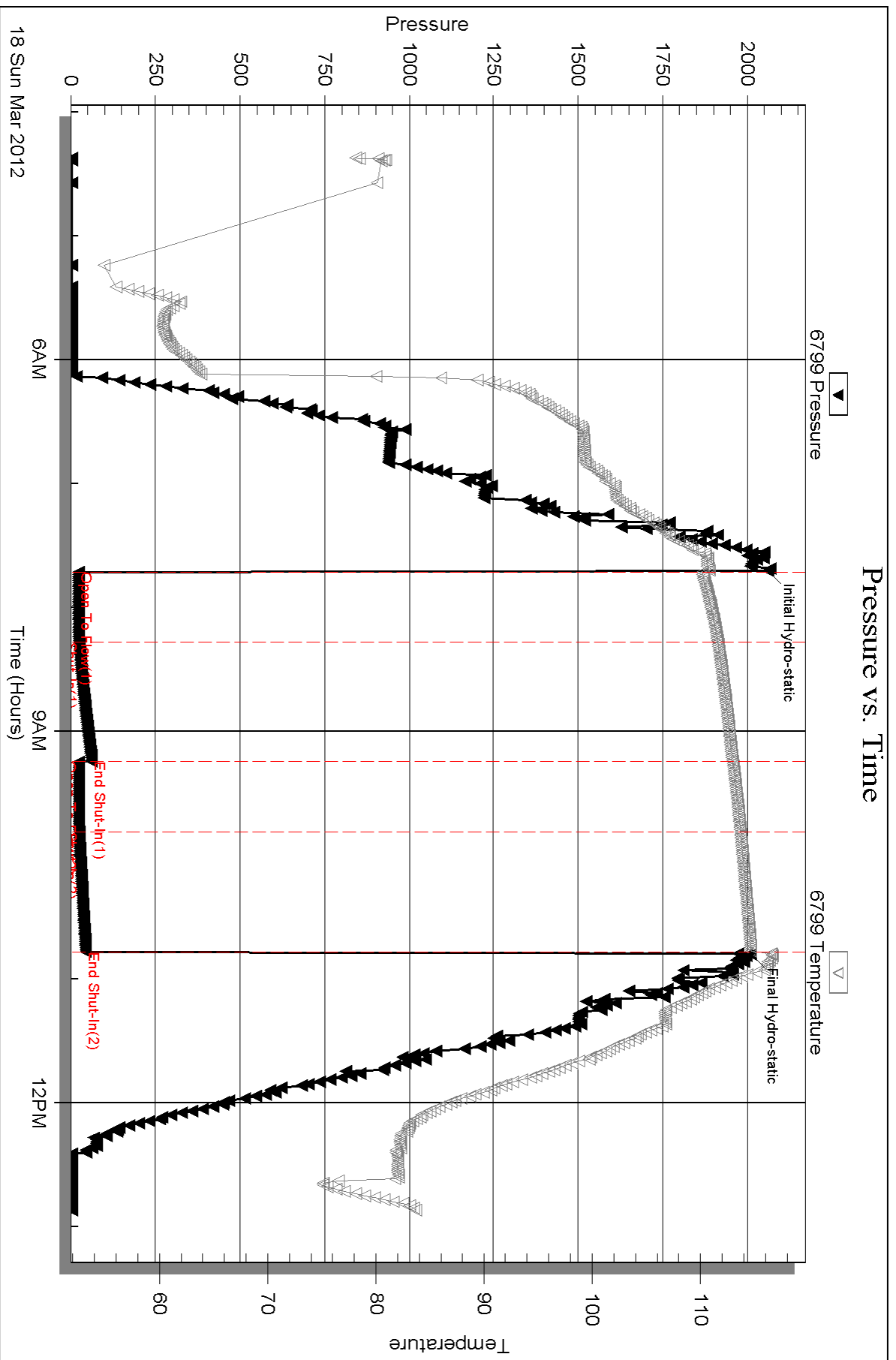
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



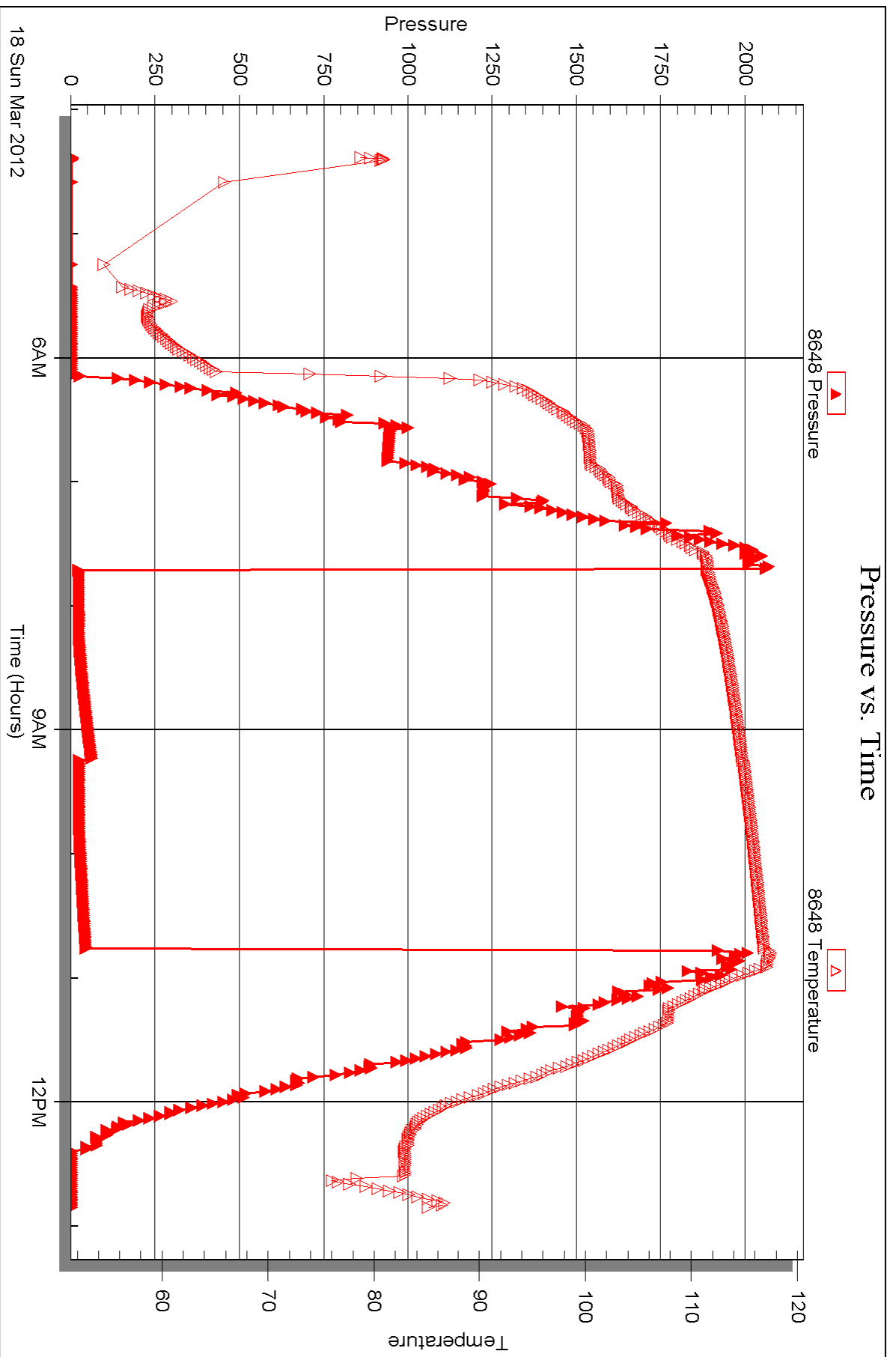
Serial #: 8648

Inside

Murfin Drilling Co.

Shaw #1-29

DST Test Number: 4





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co.**

250 N. Water STE 300
Wichita, KS 67202

ATTN: Mike Maune

Shaw #1-29

29-5s-30w Decatur,KS

Start Date: 2012.03.19 @ 20:52:00

End Date: 2012.03.20 @ 04:55:00

Job Ticket #: 46102 DST #: 5

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

Printed: 2012.03.21 @ 14:52:50



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co.
250 N. Water STE 300
Wichita, KS 67202
ATTN: Mike Maune

29-5s-30w Decatur, KS
Shaw #1-29
Job Ticket: 46102 **DST#: 5**
Test Start: 2012.03.19 @ 20:52:00

GENERAL INFORMATION:

Formation: **Cherokee**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 23:43:45
Time Test Ended: 04:55:00
Interval: 4356.00 ft (KB) To 4390.00 ft (KB) (TVD)
Total Depth: 4390.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Initial)
Tester: Kevin Mack
Unit No: 43
Reference Elevations: 2926.00 ft (KB)
2921.00 ft (CF)
KB to GR/CF: 5.00 ft

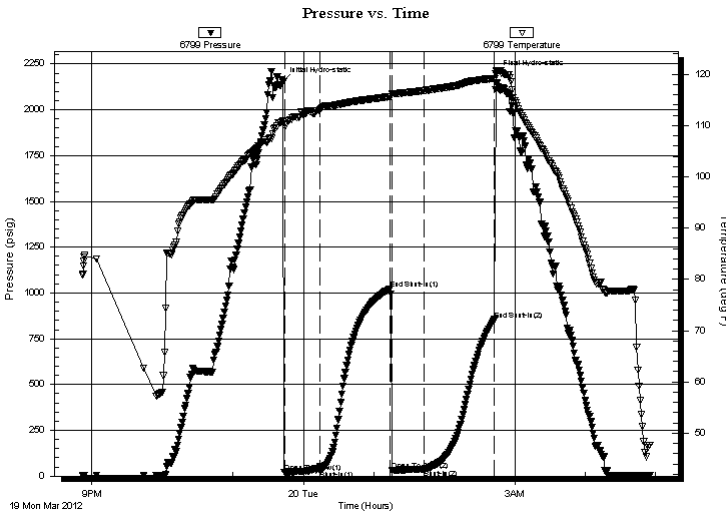
Serial #: 6799

Inside

Press @ Run Depth: 38.43 psig @ 4357.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2012.03.19 End Date: 2012.03.20 Last Calib.: 2012.03.20
Start Time: 20:52:05 End Time: 04:54:59 Time On Btm: 2012.03.19 @ 23:42:45
Time Off Btm: 2012.03.20 @ 02:44:15

TEST COMMENT: IF- 1/4" Blow built to 1"
IS- No Return
FF- Surface Blow started at 5 min. Built to 1/4"
FS- No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2152.47	110.87	Initial Hydro-static
1	21.36	110.14	Open To Flow (1)
32	30.03	112.99	Shut-In(1)
91	1023.46	115.63	End Shut-In(1)
93	33.04	116.20	Open To Flow (2)
121	38.43	116.82	Shut-In(2)
180	854.97	119.21	End Shut-In(2)
182	2193.98	120.75	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
24.00	OCM 95M 5o	0.12
1.00	Free oil 100o	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co.

29-5s-30w Decatur,KS

250 N. Water STE 300
Wichita, KS 67202

Shaw #1-29

Job Ticket: 46102

DST#: 5

ATTN: Mike Maune

Test Start: 2012.03.19 @ 20:52:00

GENERAL INFORMATION:

Formation: **Cherokee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:43:45

Time Test Ended: 04:55:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Kevin Mack

Unit No: 43

Interval: **4356.00 ft (KB) To 4390.00 ft (KB) (TVD)**

Reference Elevations: 2926.00 ft (KB)

Total Depth: 4390.00 ft (KB) (TVD)

2921.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8648 Inside

Press @ Run Depth: psig @ 4357.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.03.19 End Date: 2012.03.20

Last Calib.: 2012.03.20

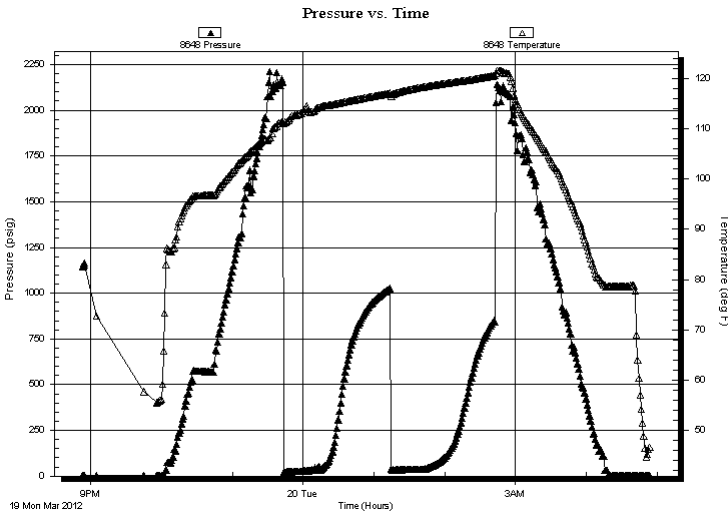
Start Time: 20:53:05 End Time: 04:54:14

Time On Btm:

Time Off Btm:

TEST COMMENT: IF- 1/4" Blow built to 1"
IS- No Return
FF- Surface Blow started at 5 min. Built to 1/4"
FS- No Return

PRESSURE SUMMARY



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

Recovery

Gas Rates

Length (ft)	Description	Volume (bbl)
24.00	OCM 95M 5o	0.12
1.00	Free oil 100o	0.00

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co.

29-5s-30w Decatur,KS

250 N. Water STE 300
Wichita, KS 67202

Shaw #1-29

Job Ticket: 46102

DST#: 5

ATTN: Mike Maune

Test Start: 2012.03.19 @ 20:52:00

Tool Information

Drill Pipe:	Length: 4172.00 ft	Diameter: 3.80 inches	Volume: 58.52 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose:	73000.00 lb
			<u>Total Volume: 59.41 bbl</u>	Tool Chased	ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial	65000.00 lb
Depth to Top Packer:	4356.00 ft			Final	65000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	34.00 ft				
Tool Length:	63.00 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			4328.00	
Shut In Tool	5.00			4333.00	
Hydraulic tool	5.00			4338.00	
Jars	5.00			4343.00	
Safety Joint	3.00			4346.00	
Packer	5.00			4351.00	29.00 Bottom Of Top Packer
Packer	5.00			4356.00	
Stubb	1.00			4357.00	
Recorder	0.00	8648	Inside	4357.00	
Recorder	0.00	6799	Inside	4357.00	
Perforations	28.00			4385.00	
Bullnose	5.00			4390.00	34.00 Bottom Packers & Anchor

Total Tool Length: 63.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co.

29-5s-30w Decatur,KS

250 N. Water STE 300
Wichita, KS 67202

Shaw #1-29

Job Ticket: 46102

DST#: 5

ATTN: Mike Maune

Test Start: 2012.03.19 @ 20:52:00

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: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.39 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
24.00	OCM 95M 5o	0.118
1.00	Free oil 100o	0.005

Total Length: 25.00 ft Total Volume: 0.123 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

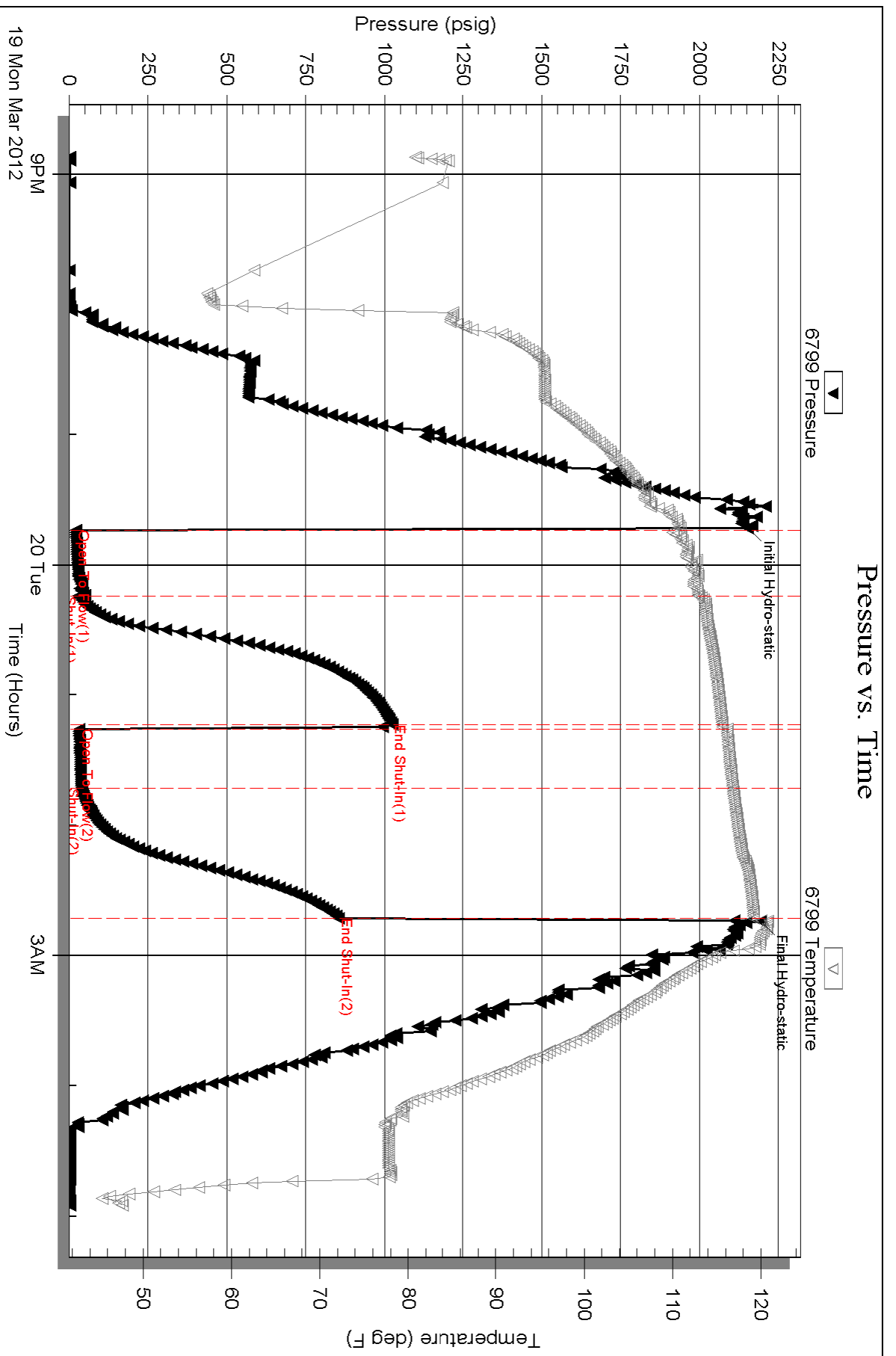
Serial #: 6799

Inside

Murfin Drilling Co.

Shaw #1-29

DST Test Number: 5



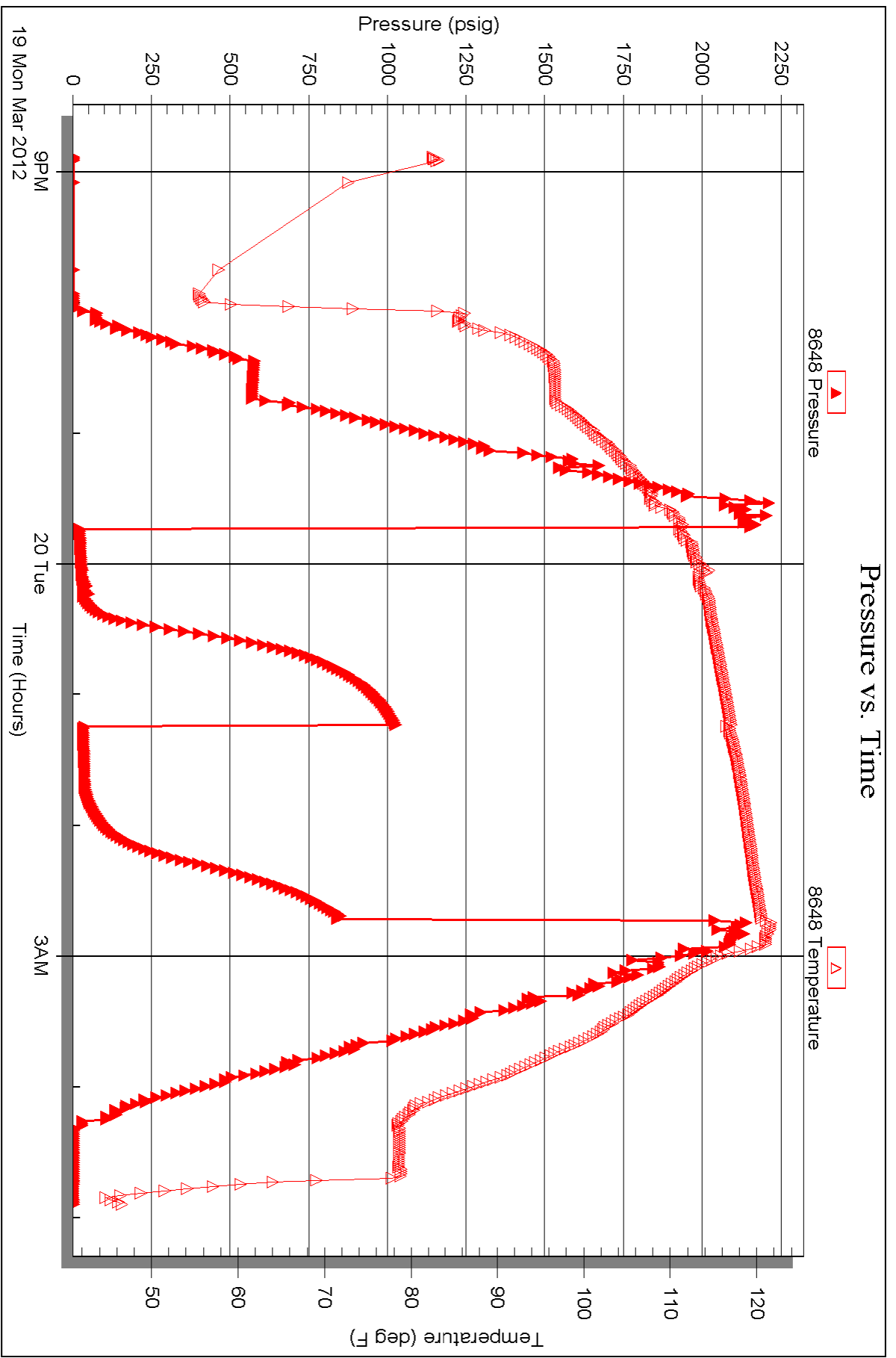
Serial #: 8648

Inside

Murfin Drilling Co.

Shaw #1-29

DST Test Number: 5





TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED
MAR 21 2012

Test Ticket

NO. 45622

Well Name & No. Shaw # 1-29 Test No. 1 Date 3-15-12
 Company Muffin Drilling Co. Elevation 2926 KB 2921 GL
 Address 250 N Water STE.#300 Wichita, KS 67202
 Co. Rep / Geo. Mike Maune Rig Muffin #8
 Location: Sec. 29 Twp. 5s Rge. 30w Co. Decatur State KS

Interval Tested 3906-3988 Zone Tested Toronto, LKC "A-B"
 Anchor Length 82' Drill Pipe Run 3703' Mud Wt. 9.0
 Top Packer Depth 3902 Drill Collars Run 180' Vis 52
 Bottom Packer Depth 3906 Wt. Pipe Run Ø WL 5.6
 Total Depth 3988 Chlorides 800 ppm System LCM 7#
 Blow Description IF-Weak surface blow built to 1/2"
IS- No Return
BF- No Blow
FS- no Return

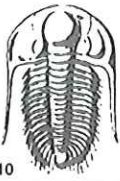
Rec	Feet of	%gas (SPETS)	%oil	%water	%mud
<u>60</u>	<u>1800 OSM</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 60 BHT 115 Gravity - API RW - @ - ° F Chlorides - ppm
 (A) Initial Hydrostatic 1915 Test 1125 T-On Location 3:45 PM
 (B) First Initial Flow 22 Jars 250 T-Started 5:26 PM
 (C) First Final Flow 47 Safety Joint 75 T-Open 7:35 PM
 (D) Initial Shut-In 1260 Circ Sub N/C T-Pulled 10:35 PM
 (E) Second Initial Flow 51 Hourly Standby _____ T-Out 12:25 AM
 (F) Second Final Flow 73 Mileage 60 RT 84 Comments _____
 (G) Final Shut-In 1245 Sampler _____
 (H) Final Hydrostatic 1860 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____
 Sub Total 1534

Approved By _____

Our Representative

Trilobite Testing Inc. shall not be liable for damaged or 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

RECEIVED
MAR 21 2012
BY: _____

Test Ticket

NO. 45623

Well Name & No. Shaw # 1-29 Test No. 2 Date 3-16-12
 Company Murfin Drilling Co. Elevation 2926 KB 2921 GL
 Address 250 N Water STE #300 Wichita, KS 67202
 Co. Rep / Geo. Mike Maune Rig Murfin #8
 Location: Sec. 29 Twp. 5S Rge. 30 W Co. Decatur State KS

Interval Tested 4009-4025 Zone Tested L/KC "F"
 Anchor Length 16' Drill Pipe Run 3826 Mud Wt. 9.2
 Top Packer Depth 4004 Drill Collars Run 180 Vis 49
 Bottom Packer Depth 4009 Wt. Pipe Run Ø WL 6.0
 Total Depth 4025 Chlorides 800 ppm System LCM 7#

Blow Description IF- Weak Surface blow built to 1/8"
IS- No Return
FF- No Blow
FS- No Return

Rec	Feet of	%gas (spots)	%oil	%water	%mud
<u>5</u>	<u>OSM</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 5 BHT 116 Gravity - API RW - @ - ° F Chlorides - ppm

(A) Initial Hydrostatic <u>1994</u>	<input checked="" type="checkbox"/> Test <u>1225</u>	T-On Location <u>9:55 AM</u>
(B) First Initial Flow <u>18</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>10:32 AM</u>
(C) First Final Flow <u>20</u>	<input checked="" type="checkbox"/> Safety Joint <u>75'</u>	T-Open <u>1:07 PM</u>
(D) Initial Shut-In <u>46</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>4:07 PM</u>
(E) Second Initial Flow <u>20</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>5:50 PM</u>
(F) Second Final Flow <u>20</u>	<input checked="" type="checkbox"/> Mileage <u>60 RT 84'</u>	Comments _____
(G) Final Shut-In <u>32</u>	<input type="checkbox"/> Sampler	<input type="checkbox"/> Ruined Shale Packer
(H) Final Hydrostatic <u>1995</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Packer
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Extra Copies
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Packer	Sub Total <u>Ø</u>
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder	Total <u>11634'</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby	MP/DST Disc't _____
	<input type="checkbox"/> Accessibility	
	Sub Total <u>11634'</u>	

Approved By _____ Our Representative

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED
MAR 21 2012

Test Ticket

NO. 45624

4/10

Well Name & No. Shaw # 1-29 BY: _____ Test No. 3 Date 3-17-12
 Company Murfin Drilling Co. Elevation 2926 KB 2921 GL
 Address 250 N Water STE #300 Wichita, KS 67202
 Co. Rep / Geo. Milke Maune Rig Murfin #8
 Location: Sec. 29 Twp. 5s Rge. 30w Co. Decatur State KS

Interval Tested 4084-4124 Zone Tested LKC "J"
 Anchor Length 40' Drill Pipe Run 3890' Mud Wt. 9.2
 Top Packer Depth 4080 Drill Collars Run 180' Vis 49
 Bottom Packer Depth 4084 Wt. Pipe Run Ø WL 6.0
 Total Depth 4124 Chlorides 800 ppm System LCM 7#

Blow Description IF - weak surface blow built to 1/4"
IS - No Return
FF - No Blow
FS - No Return

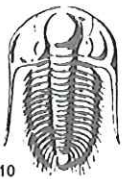
Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>Mud</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 5 BHT 116 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 2034 Test 1225' T-On Location 8:30 AM
 (B) First Initial Flow 22 Jars 250' T-Started 8:50 AM
 (C) First Final Flow 23 Safety Joint 75' T-Open 11:46 AM
 (D) Initial Shut-In 40 Circ Sub M/C T-Pulled 2:46 PM
 (E) Second Initial Flow 25 Hourly Standby _____ T-Out 4:48 PM
 (F) Second Final Flow 25 Mileage 60 RT 84' Comments _____
 (G) Final Shut-In 38 Sampler _____
 (H) Final Hydrostatic 2059 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Initial Open 30 Extra Recorder _____ Sub Total Ø
 Initial Shut-In 60 Day Standby _____ Total 11034'
 Final Flow 30 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 60 Sub Total 11034'

Approved By _____ Our Representative

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



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED
MAR 21 2012

Test Ticket

NO. 46101

4/10

BY:

Well Name & No. Shaw # 1-29 Test No. 4 Date 3-18-12
 Company Murphy Drilling Co. Elevation 2926 KB 2921 GL
 Address 250 N. Water STE #300 Wichita, KS 67202
 Co. Rep / Geo. Mike Maune Rig Murphy #8
 Location: Sec. 29 Twp. S5 Rge. 30 W Co. Decatur State KS

Interval Tested 4118-4180 Zone Tested LKC "K-L"
 Anchor Length 62' Drill Pipe Run 3917 Mud Wt. 9.1
 Top Packer Depth 4114 Drill Collars Run 180 Vis 59
 Bottom Packer Depth 4118 Wt. Pipe Run Ø WL 5.6
 Total Depth 4180 Chlorides 800 ppm System LCM 8#
 Blow Description IF - Surface Blow built to 1/2"
IS - No Return
FF - No Blow
PS - No Return

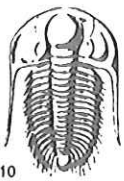
Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>OSM</u>	<u>(slits)</u>		<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 5 BHT 115 Gravity - API RW - @ - ° F Chlorides - ppm

(A) Initial Hydrostatic <u>2060</u>	<input checked="" type="checkbox"/> Test <u>1225</u>	T-On Location <u>4:00 AM</u>
(B) First Initial Flow <u>22</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>4:22 AM</u>
(C) First Final Flow <u>24</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>7:42 AM</u>
(D) Initial Shut-In <u>61</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>10:42 AM</u>
(E) Second Initial Flow <u>24</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>12:52 PM</u>
(F) Second Final Flow <u>25</u>	<input checked="" type="checkbox"/> Mileage <u>60 RT 84</u>	Comments
(G) Final Shut-In <u>44</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2011</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>Ø</u>
Final Flow <u>30</u>	<input type="checkbox"/> Day Standby	Total <u>11034</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>11034</u>	

Approved By _____ Our Representative

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED
MAR 21 2012

Test Ticket

NO. 46102

4/10

Well Name & No. Shaw # 1-29 BY: _____ Test No. 5 Date 3-19-12
 Company Murrin Drilling Co. Elevation 2926 KB 2921 GL
 Address 250 N Water STE #300 Wichita, KS 67202
 Co. Rep / Geo. Mike Maune Rig Murrin #8
 Location: Sec. 29 Twp. 5S Rge. 30W Co. Decatur State KS

Interval Tested 4356-4390 Zone Tested Cherokee
 Anchor Length 34' Drill Pipe Run 4172 Mud Wt. 9.3
 Top Packer Depth 4352 Drill Collars Run 180 Vis 50
 Bottom Packer Depth 4356 Wt. Pipe Run Ø WL 6.4
 Total Depth 4390 Chlorides 1,000 ppm System LCM 6#
 Blow Description IF - 1/4" Built Blow built to 1"
IS - No Return
FF - Surface Blow started at 5 min. Built to 1/4"
FS - No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>20</u> <u>1</u>	<u>ØCM Free oil</u>	<u>100</u>			
<u>24</u>	<u>ØCM</u>	<u>5</u>		<u>95</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 25' BHT 119 Gravity - API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic <u>2152</u>	<input checked="" type="checkbox"/> Test <u>1225'</u>	T-On Location <u>8:10 PM</u>
(B) First Initial Flow <u>21</u>	<input checked="" type="checkbox"/> Jars <u>250'</u>	T-Started <u>8:52 PM</u>
(C) First Final Flow <u>30</u>	<input checked="" type="checkbox"/> Safety Joint <u>75'</u>	T-Open <u>11:43 PM</u>
(D) Initial Shut-In <u>1023</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>2:43 AM</u>
(E) Second Initial Flow <u>33</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>4:55 AM</u>
(F) Second Final Flow <u>38</u>	<input checked="" type="checkbox"/> Mileage <u>60 RT 84'</u>	Comments _____
(G) Final Shut-In <u>854</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2193</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>Ø</u>
Final Flow <u>30</u>	<input type="checkbox"/> Day Standby	Total <u>11034'</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Accessibility	MP/DST Disc't _____
	Sub Total <u>11034'</u>	

Approved By _____ Our Representative [Signature]

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

ALLIED

OIL & GAS SERVICES, LLC

PO Box 93999
Southlake, TX 76092

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

*Jay H
meat*

INVOICE

Invoice Number: 130433
Invoice Date: Mar 10, 2012
Page: 1

OPERATOR PAY MDC
LEASE: Bm

PROD COPY

Federal Tax I.D.#: 20-8651475

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	Shaw #1-29	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	Mar 10, 2012	4/9/12

Quantity	Item	Description	Unit Price	Amount
225.00	MAT	Class A Common	16.25	3,656.25
8.00	MAT	Chloride	58.20	465.60
233.00	SER	Handling	2.25	524.25
38.00	SER	Mileage	25.63	973.94
1.00	SER	Surface	1,125.00	1,125.00
38.00	SER	Heavy Vehicle Mileage	7.00	266.00
38.00	SER	Light Vehicle Mileage	4.00	152.00
1.00	CEMENTER	Andrew Forslund		
1.00	OPER ASSIST	Tyler Flipse		
1.00	OPER ASSIST	Ethan Glassman		

Account	Fig	L	NO.	Amount	Description
FD 203				4956.88	Cement S. Csg. = 1-29
3.				7454.000	OK

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

\$2507.06

ONLY IF PAID ON OR BEFORE
Apr 4, 2012

Subtotal	7,163.04
Sales Tax	300.90
Total Invoice Amount	7,463.94
Payment/Credit Applied	
TOTAL	7,463.94

h
- 2507.06
4956.88

ALLIED CEMENTING CO., LLC. 035250

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:

Oakley

DATE <u>3-10-12</u>	SEC <u>29</u>	TWP <u>5</u>	RANGE <u>30</u>	CALLED OUT	ON LOCATION	JOB START <u>8:00am</u>	JOB FINISH <u>8:30pm</u>
EASE <u>Shaw</u>	WELL# <u>1-29</u>	LOCATION <u>Rexford 7N 1E 2N</u>			COUNTY <u>Decatur</u>	STATE <u>KS</u>	
LD OR NEW (Circle one) <u>NEW</u>				<u>1/4E SINTO</u>			

CONTRACTOR MurFin 8
 TYPE OF JOB surface
 OLE SIZE 12 1/4 T.D. 283'
 CASING SIZE 8 5/8 DEPTH 283'
 TUBING SIZE DEPTH
 RILL PIPE DEPTH
 CROWFOOT DEPTH
 RES. MAX MINIMUM
 CAS. LINE SHOE JOINT
 CEMENT LEFT IN CSG. 30
 SURFS.
 DISPLACEMENT 1611 BBL
 EQUIPMENT

JMP TRUCK CEMENTER Andrew
422 HELPER Tyler
 ULK TRUCK
347 DRIVER Ethan
 ULK TRUCK
 DRIVER

REMARKS:

Cement did circulate

Thank you

CHARGE TO: MurFin
 REET _____
 CITY _____ STATE _____ ZIP _____

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 Rodney Farr
 SIGNATURE Rodney Farr

OWNER Same
 CEMENT AMOUNT ORDERED 225 sks com
3% cc
 COMMON 225 sks @ 16.25 3656.25
 POZMIX @ _____
 GEL @ _____
 CHLORIDE 8 sks @ 58.20 465.60
 ASC @ _____
 @ _____
 @ _____
 @ _____
 @ _____
 @ _____
 @ _____
 @ _____
 @ _____
 HANDLING 223 sks @ 2.25 501.75
 MILEAGE 18 sk/mile 973.94
 TOTAL 5620.64

SERVICE

DEPTH OF JOB 283'
 PUMP TRUCK CHARGE 1125.00
 EXTRA FOOTAGE @ _____
 MILEAGE 38 miles @ 2.00 76.00
 MANIFOLD head @ 20.00 200.00
Light vehicle @ 4.00 152.00
 @ _____

TOTAL 1743.00

PLUG & FLOAT EQUIPMENT

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

SALES TAX (If Any) _____
 TOTAL CHARGES _____
 DISCOUNT _____ IF PAID IN 30 DAYS



INVOICE

PO Box 93999
Southlake, TX 76092

PROD COPY
OPERATOR PAY MDC
LEASE: Bm

Invoice Number: 130589
Invoice Date: Mar 21, 2012
Page: 1

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



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

USED FOR _____
APPROVED _____

Customer ID	Well Name # or Customer P.O.	Payment Terms	
Murfin	Shaw #1-29	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-03	Oakley	Mar 21, 2012	4/20/12

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
231.00	SER	Handling	2.25	519.75
38.00	SER	Mileage	25.41	965.58
1.00	SER	Plug To Abandon	1,250.00	1,250.00
38.00	SER	Heavy Vehicle Mileage	7.00	266.00
38.00	SER	Light Vehicle Mileage	4.00	152.00
1.00	CEMENTER	Alan Ryan		
1.00	EQUIP OPER	Wayne Mc Ghghy		
1.00	OPER ASSIST	Steve Heikkila		

Account	Amount	Description
ID 203	4601.77	PTA 1-29
	3.7454.0001	

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

\$2227.69

ONLY IF PAID ON OR BEFORE
Apr 15, 2012

Subtotal	6,364.83
Sales Tax	464.63
Total Invoice Amount	6,829.46
Payment/Credit Applied	
TOTAL	6,829.46

(2227.69)

4601.77

ALLIED CEMENTING CO., LLC. 035362

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:

Oakley, KS

DATE <i>3/21/12</i>	SEC <i>29</i>	TWP. <i>5</i>	RANGE <i>30</i>	CALLED OUT	ON LOCATION <i>9:30am</i>	JOB START <i>1:30pm</i>	JOB FINISH <i>2:30pm</i>
LEASE <i>Shaw</i>	WELL# <i>1-09</i>	LOCATION <i>Rexford 7N. 1E 2N 1/4 E</i>			COUNTY <i>Decatur</i>	STATE <i>KS</i>	
OLD OR NEW (Circle one) <i>SINCE</i>							

CONTRACTOR *Murphy P*

TYPE OF JOB *PTA PTA*

HOLE SIZE *7 7/8* T.D.

CASING SIZE *8 5/8* DEPTH

TUBING SIZE DEPTH

DRILL PIPE *4 1/2* DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG.

PERFS.

DISPLACEMENT

OWNER *Same*

CEMENT AMOUNT ORDERED *220 60/40 40 royal*

COMMON	<i>132</i>	@ <i>16.25</i>	<i>2145.00</i>
POZMIX	<i>88</i>	@ <i>8.50</i>	<i>748.00</i>
GEL	<i>8</i>	@ <i>21.25</i>	<i>170.00</i>
CHLORIDE		@	
ASC		@	
<i>Floer</i>	<i>55</i>	@ <i>2.20</i>	<i>121.00</i>
		@ <i>1.18</i>	<i>64.90</i>
		@	
		@	
		@	
		@	
		@	
HANDLING	<i>231 SKs</i>	@ <i>2.25</i>	<i>519.75</i>
MILEAGE	<i>11 & 5/4 mile</i>		<i>965.38</i>
TOTAL			<i>4696.83</i>

EQUIPMENT

PUMP TRUCK CEMENTER *Alan*

402 HELPER *Wendy*

BULK TRUCK

404 DRIVER *Steve*

BULK TRUCK

DRIVER

REMARKS:

25 SK @ 26.45

20 SK @ 18.46

10 SK @ 33.2

10 SK @ 40

30 SK Post Hole

15 SK Primer Hole

SERVICE

DEPTH OF JOB		<i>2645'</i>	
PUMP TRUCK CHARGE		<i>1250</i>	
EXTRA FOOTAGE	@		
MILEAGE	<i>38</i>	@ <i>7.00</i>	<i>266.00</i>
MANIFOLD	@		
<i>Litellehole</i>	<i>38</i>	@ <i>4.00</i>	<i>152.00</i>
		@	
TOTAL			<i>1668.00</i>

CHARGE TO: *Murphy Drilling*

STREET _____

CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

	@		
	@		
	@		
	@		
	@		
TOTAL			

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PRINTED NAME _____

SIGNATURE *Robert Farn*

SALES TAX (If Any) _____

TOTAL CHARGES _____

DISCOUNT _____ IF PAID IN 30 DAYS _____