

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

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

Gas DH EOR

OG GSW

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 EOR Conv. to SWD
 Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

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 Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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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				

1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
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)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Ritchie Exploration, Inc.
Well Name	ANDERSON 32B 1
Doc ID	1321629

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
4	4640.5'-4644' (8/25/16)		
4	4487'-4492'		
	CIBP @ 4595'*		

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

Well Name: #1 Anderson 32B
 Well Id:
 Location: 1980' FNL, 2200' FWL, SECTION 32-19S-30W, E/2 SE NW
 License Number: API: 15-101-22579 Region: Lane County
 Spud Date: 08/02/2016 Drilling Completed: 08/12/2016
 Surface Coordinates: LAT 38.3605939
 LONG -100.6593915
 Vertical hole
 Bottom Hole Coordinates: 3/4 Degree Deviation
 Ground Elevation (ft): 2929' K.B. Elevation (ft): 2934'
 Logged Interval (ft): 3700' To: RTD Total Depth (ft): 4730'
 Formation: Mississippian at RTD
 Type of Drilling Fluid: Chemical

Printed by WellSight Log Viewer from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: Ritchie Exploration Inc.
 Address: 8100 E 22nd St. N #700
 Wichita, KS 67226
 (316) 691-9500

GEOLOGIST

Name: John Goldsmith
 Company: Website Services, LLC
 Address: 427 Roosevelt St
 Cheney, KS 67025
 (316) 640-0236

RIG AND BIT RECORDS

Contractor: WW Drilling Rig #2 Collar Tally: 475' Pump: National K-380
 Pusher: Lonnie Lang Liner & Stroke: 6 x 14

Bit Record

Size	Type	Footage	Condition	Hours	Serial #
12 1/4	Sm-tooth	0-231'	RR	2.75	RD 6702
7 7/8	Sm-F27	231'-4730'	New	118.75	RH 5198

COMMENTS

Surface Casing: 5 joints of 8 5/8" set at 231'
 Production Casing: 5.5" production casing was set at 4716'
 Mud by: MudCo
 DST's by: Trilobite Testing
 Logs by: Pioneer Energy Services (DIL, CN-CD, ML)
 RTD=4730'
 LTD=4730'

FORMATION TOPS

FORMATION	SAMPLE TOPS		LOG TOPS	
	Depth	Datum	Depth	Datum
Heebner Shale	3947'	-1013	3947'	-1013
Toronto	3958'	-1024	3958'	-1024
Lansing	3992'	-1058	3992'	-1058
Muncie Creek Shale	4170'	-1236	4170'	-1236
Stark Shale	4276'	-1342	4277'	-1343
Hushpuckney Shale	4316'	-1382	4316'	-1382
Base of KC	4362'	-1428	4361'	-1427
Marmaton	4392'	-1458	4393'	-1459
Altamont	4404'	-1470	4404'	-1470
Pawnee	4482'	-1548	4482'	-1548
Myrick Station	4512'	-1578	4512'	-1578
Ft Scott	4527'	-1593	4527'	-1593
Cherokee Shale	4549'	-1615	4548'	-1614
Johnson Zone	4589'	-1655	4589'	-1655
Morrow	4604'	-1670	4604'	-1670
Mississippian	4614'	-1680	4614'	-1680
RTD	4730'	-1796		
LTD			4730'	-1796

DSTs

DST #1 "LKC-L" 4310-4344' 8-8-16 30-45-45-60
 1st Blw: 1/4" blw bit to 5" (No BB)
 2nd Blw: Surf blw bit to 1.25" (No BB)
 IFF: 21-46# ISIP: 989# FFP: 61-74# FSIP: 991#
 Hyd: 2161-2118#
 Rec: 60' OCMW (5%Oil, 65%WTR), 60' OCM (10%Oil), 30' CO.

DST #2 "Altamont A" 4385-4440' 8-9-16 30-45-45-60
 1st Blw: Bit to BOB in 17min (No BB)
 2nd Blw: Bit to BOB in 22min (No BB)
 IFF: 24-155# ISIP: 977# FFP: 158-252# FSIP: 937#
 Hyd: 2237-2168#
 Rec: 189' OCMW (10%Oil, 60%WTR), 126' GOCMW (10%Gas, 10%Oil, 20%WTR), 217' OCM (10%Oil).

DST #3 "Altamont C" 4442-4466' 8-9-16 30-30-30-30
 1st Blw: Surf blw died 6min (No BB)
 2nd Blw: No blw, flushed, no blw (No BB)
 IFF: 15-15# ISIP: 22# FFP: 14-16# FSIP: 20#
 Hyd: 2222-2158#
 Rec: 5' Mud.

DST #4 "Pawnee" 4475-4549' 8-10-16 30-45-45-60
 1st Blw: Bit to BOB in 1.5min (BOB BB in 7min)
 2nd Blw: Bit to BOB in 2min (BOB BB in 30min)
 IFF: 152-496# ISIP: 1150# FFP: 514-820# FSIP: 1129#
 Hyd: 2265-2228#
 Rec: 1525' GIP, 239' GO(80%Oil), 1827' GO(60%Oil), 126' MCGO(60%Oil, 20%Gas), 63' GOCM(10%Oil, 20%Gas).

DST #5 "Cherokee" 4547-4606' 8-11-16 30-30-30-30
 1st Blw: 1/4" blw bit to 1" in 30min (No BB)
 2nd Blw: No blw, flush tool, no blw (No BB)
 IFF: 17-17# ISIP: 23# FFP: 16-19# FSIP: 23#
 Hyd: 2246-2204#
 Rec: 5' Mud.

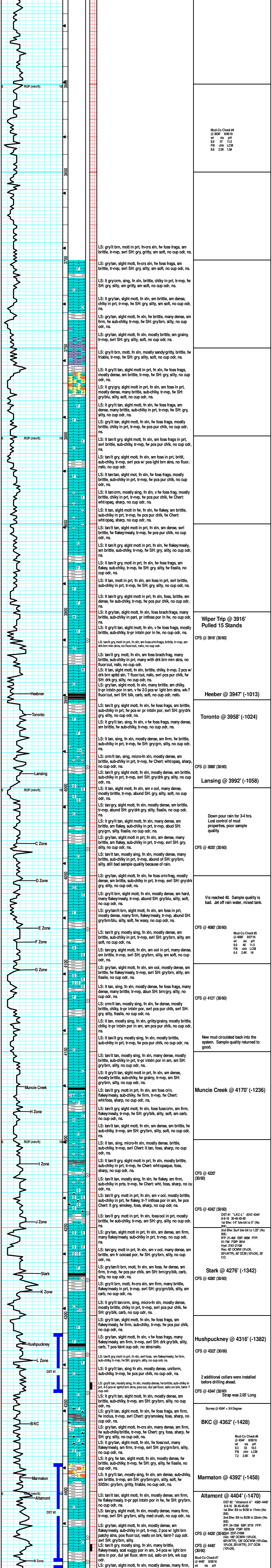
DST #6 "Mississippi" 4604-4678' 8-11-16 30-45-45-60
 1st Blw: Blw bit to BOB in 4min (No BB)
 2nd Blw: Blw bit to BOB in 5min (No BB)
 IFF: 73-370# ISIP: 1200# FFP: 385-687# FSIP: 1199#
 Hyd: 2342-2240#
 Rec: 63' GIP, 220' OCMW(10%Oil, 10%WTR), 504' OCMW(5%Oil, 70%WTR), 378' GOCMW(30%Gas, 10%Oil, 50%WTR), 441' OCMW(5%Oil, 85%WTR).

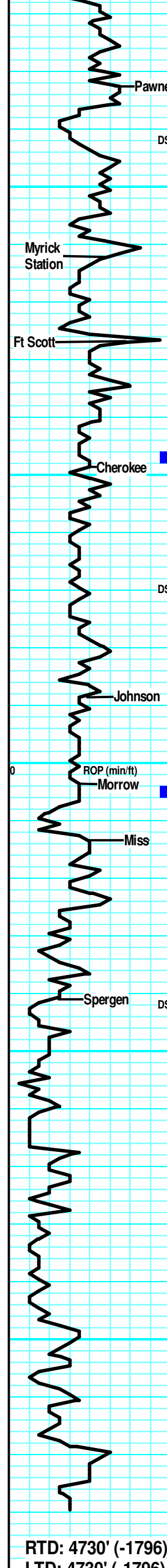
ROCK TYPES

Anhy	Dol	Siltst	Gry sh
Cht	Lmst	Ss	Sandylms
Congl	Shale	Carb sh	Shaly ls

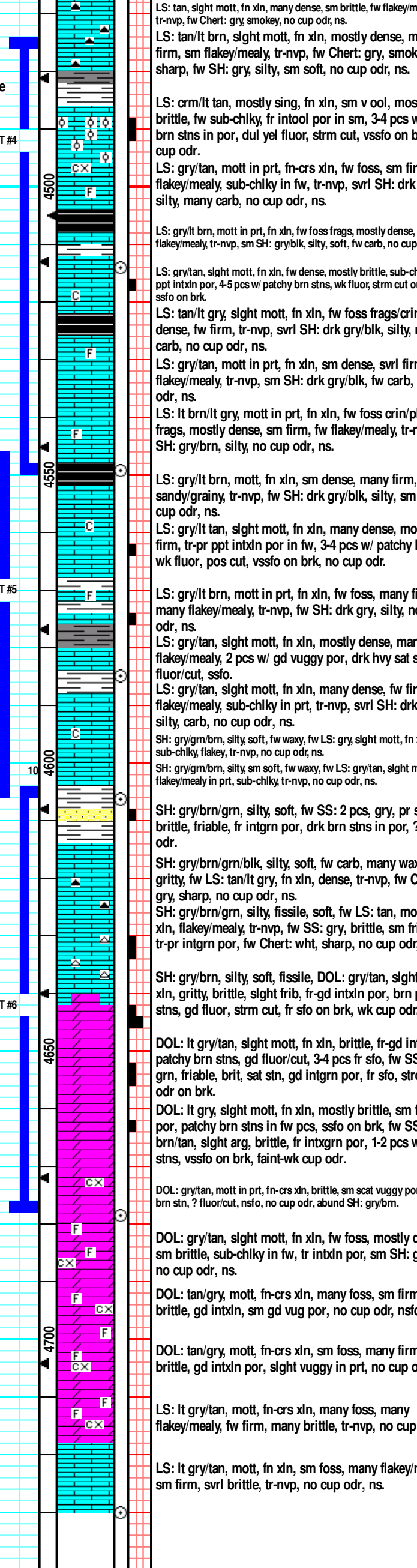
ACCESSORIES

Circulation	Crin	Oomold	Pyr
Connection	Foram	MINERAL	TEXTURE
FOSSIL	Gastro	Chtdk	Chrxln
Brach	Oolite	Chtlt	Flxln
Bryozoa	Plant	Glaui	Microxln
	Fuss	Nodule	





RTD: 4730' (-1796)
LTD: 4730' (-1796)



RTD: 4730' (-1796)
LTD: 4730' (-1796)

Hyd: 222-2158#
Rec: 5' Mud.

Pawnee @ 4482' (-1548)
DST #4 "Pawnee" 4475-4549' 8-10-16
30-45-49
1st Blw: Blt to BOB in 1.5min (BOB BB in 7min)
2nd Blw: Blt to BOB in 2min (BOB BB in 30min)
IFP: 152-466# ISP: 1150# FFP:
214-520# FSP: 115#
Hyd: 225-223#
Rec: 155' GP, 22' GO(8%OIL), 1827' GO(0%OIL), 12' MCCO(0%OIL), 20%(Gas), 63' GOCM(10%OIL, 20%Gas).

Myrick Station @ 4512' (-1578)
CFS @ 4514'
(30' / 60')

Ft Scott @ 4527' (-1593)

Mud-Co Check#8
@ 4547' 81016
wt vis pH
9.3 55 10.0
Filt chr LCM
8.8 4.4k 2#

CFS @ 4548' (30/60)

Cherokee @ 4549' (-1615)

DST #5 "Cherokee"
4547'-4605' 8-11-16
30-30-30-30
1st Blw: 1/4" blw bit to 1" in 30min (No BB)
2nd Blw: No blw, flush tool, no blw (No BB)
IFP: 17-17# ISP: 23# FFP:
15-5# FSP: 23#
Hyd: 2246-220#
Rec: 5' Mud.

CFS @ 4585' (30/60)

Johnson @ 4589' (-1655)

Morrow @ 4604' (1670)
CFS @ 4605' (30/60)

Mississippi @ 4614' (-1680)

Mud-Co Check#9
@ 4630' 81116
wt vis pH
9.2 54 9.5
Filt chr LCM
6.6 5k 2#

DST #6 "Mississippi" 4604'-4678'
8-11-16 30-45-45-50
1st Blw: Blw bit to BOB in 4min (No BB)
2nd Blw: Blw bit to BOB in 5min (No BB)
IFP: 73-37# ISP: 1300# FFP:
355-67# FSP: 115#
Hyd: 2342-2240#
Rec: 63' GP, 227' OCMW(10%OIL, 10%WTR), 53' OCMW(5%OIL, 70%WTR), 37# GOCM(30%Gas, 10%OIL, 50%WTR), 41' OCMW(5%OIL, 80%WTR).

CFS @ 4678' (30/60)

Mud-Co Check#10
@ 4727' 81216
wt vis pH
9.1 59 11.0
Filt chr LCM
7.2 4k 2#

CFS @ 4730' (30/60)

Survey @ 4730' = 34 Degree

LS: tan, slight mott, in xln, many dense, sm brittle, fw flakey/mealy, tr-nvp, fw Chert: gry, sm/med, no cup odr, ns

LS: tan/lit brn, slight mott, in xln, mostly dense, many firm, sm flakey/mealy, tr-nvp, fw Chert: gry, smokey, foss, sharp, fw SH: gry, silty, sm soft, no cup odr, ns

LS: crm/lt tan, mostly sing, in xln, sm v ool, mostly brittle, fw sub-chily; fr intool por in sm, 3-4 pcs wk light brn stns in por, dul yel fluor, strn cut, vsslo on brk, wk cup odr.

LS: gry/tan, mott in prt, fr-crs xln, fw foss, sm firm, many flakey/mealy, sub-chily in fw, tr-nvp, svrl SH: drk gry/blk, silty, many carb, no cup odr, ns

LS: gry/lt brn, mott in prt, in xln, fw foss frags, mostly dense, fw flakey/mealy, tr-nvp, sm SH: gry/blk, silty, soft, fw carb, no cup odr, ns

LS: gry/tan, slight mott, in xln, sm dense, mostly brittle, sub-chily, tr-pr ppt intol por, 4-5 pcs w/ patchy brn stns, wk fluor, strn cut on brk, v sfo on brk

LS: tan/lt gry, slight mott, in xln, fw foss frags/crin, many dense, fw firm, tr-nvp, svrl SH: drk gry/blk, silty, many carb, no cup odr, ns

LS: gry/tan, mott in prt, in xln, sm dense, svrl firm, many flakey/mealy, sub-chily in fw, tr-nvp, svrl SH: drk gry/blk, silty, carb, no cup odr, ns

LS: lt brn/lt gry, mott in prt, in xln, fw foss crin/plant frags, mostly dense, sm firm, fw flakey/mealy, tr-nvp, sm SH: gry/brn, silty, no cup odr, ns

LS: gry/lt brn, mott, in xln, sm dense, many firm, many sand/grainy, fw SH: drk gry/blk, silty, sm carb, no cup odr, ns

LS: gry/lt tan, slight mott, in xln, fw foss frags, mostly firm, friable, fr intgrn por, drk brn stns in por, 7 cup odr.

LS: gry/lt brn, mott in prt, in xln, fw foss, many firm, many flakey/mealy, tr-nvp, fw SH: drk gry, silty, no cup odr, ns

LS: gry/tan, mott in prt, in xln, mostly dense, many firm, flakey/mealy, 2 pcs w/ gd vuggy por, drk hvy sat stn, gd fluor cut, sfo.

LS: gry/tan, slight mott, in xln, many dense, fw firm, many flakey/mealy, sub-chily in prt, tr-nvp, svrl SH: drk gry/blk, silty, carb, no cup odr, ns

SH: gry/brn, silty, soft, fw waxy, fw LS: gry, slight mott, in xln, dense, sub-chily flakey, tr-nvp, no cup odr, ns

SH: gry/brn, silty, sm soft, fw waxy, fw LS: gry/tan, slight mott, in xln, flakey/mealy in prt, sub-chily, tr-nvp, no cup odr, ns

SH: gry/brn/gry, silty, soft, fw SS: 2 pcs, gry, pr sort, brittle, friable, fr intgrn por, drk brn stns in por, 7 cup odr.

SH: gry/brn/gry/blk, silty, soft, fw carb, many waxy, sm gritty, fw LS: tan/lt gry, in xln, dense, tr-nvp, fw Chert: gry, sharp, no cup odr, ns

SH: gry/brn/gry, silty, fissile, soft, fw LS: tan, mott, in xln, flakey/mealy, tr-nvp, fw SS: gry, brittle, sm friable, tr-pr intgrn por, fw Chert: wht, sharp, no cup odr, ns

SH: gry/brn, silty, soft, fissile, DOL: gry/tan, slight mott, in xln, gritty, brittle, slight frib, fr-gd intol por, brn patchy stns, gd fluor, strn cut, fr sfo on brk, wk cup odr.

DOL: lt gry/tan, slight mott, in xln, brittle, fr-gd intol por, patchy brn stns, gd fluor/cut, 3-4 pcs fr sfo, fw SS: brn, in grn, friable, brit, sat stn, gd intgrn por, fr sfo, strong cup odr on brk.

DOL: lt gry, slight mott, in xln, mostly brittle, sm fr intol por, patchy brn stns in fw pcs, sfo on brk, fw SS: lt brn/tan, slight arg, brittle, fr intgrn por, 1-2 pcs w/ brn stns, vsslo on brk, faint-wk cup odr.

DOL: gry/tan, slight mott, in xln, brittle, sm soft vuggy por, pos light brn stn, 7 fluor cut, nfo, no cup odr, sbund SH: gry/brn.

DOL: gry/tan, slight mott, in xln, fw foss, mostly dense, sm brittle, sub-chily in fw, tr intol por, sm SH: gry/brn, no cup odr, ns

DOL: tan/gry, mott, fr-crs xln, many loss, sm firm, fw brittle, gd intol por, slight vuggy in prt, no cup odr, nsfo.

DOL: tan/gry, mott, fr-crs xln, sm foss, many firm, svrl brittle, gd intol por, slight vuggy in prt, no cup odr, ns

LS: lt gry/tan, mott, fr-crs xln, many loss, many flakey/mealy, fw firm, many brittle, tr-nvp, no cup odr, ns

LS: lt gry/tan, mott, in xln, sm foss, many flakey/mealy, sm firm, svrl brittle, tr-nvp, no cup odr, ns



#1 Anderson 32B

1980' FNL & 2200' FWL

110' W of E/2 SE/4 NW/4 Section 32-19S-30W

Lane County, Kansas

API# 15-101-22579-0000

Elevation: GL: 2929', KB: 2934'

Sample Tops			Ref. Well
Anhydrite	2252'	+682	-23
B/Anhydrite	2269'	+665	-23
Heebner	3950'	-1016	+7
Toronto	3972'	-1038	Flat
Lansing	3990'	-1056	+15
Muncie Shale	4175'	-1241	+12
Stark Shale	4276'	-1342	+24
Hush	4313'	-1379	+24
BKC	4357'	-1423	+20
Marmaton	4400'	-1466	+15
Altamont	4414'	-1480	+11
Pawnee	4480'	-1546	+22
Myrick	4512'	-1578	+19
Fort Scott	4526'	-1592	+20
Cherokee	4549'	-1615	+20
Johnson	4582'	-1648	+35
Mississippian	4625'	-1691	+22
RTD	4730'	-1796	



CONSOLIDATED
Oil Well Services, LLC

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

FIELD TICKET & TREATMENT REPORT

CEMENT

Invoice # **908339**

TICKET NUMBER 51532
LOCATION Chick, KS
FOREMAN Jerry Miles

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
8-13-16	7173	Anderson 32 B #1	32	19S	30W	Lane
CUSTOMER						
MAILING ADDRESS			TRUCK #	DRIVER	TRUCK #	DRIVER
Ritchie			753	Rob S		
PO BOX 783188			460	Cory D		
CITY			STATE			
Wichita			KS			
STATE			ZIP CODE			
KS			67278-3188			

JOB TYPE Long String HOLE SIZE 7 7/8 HOLE DEPTH 4730 CASING SIZE & WEIGHT 5 1/2 15.5 lb
 CASING DEPTH 4718 DRILL PIPE _____ TUBING _____ OTHER PC @ 2211
 SLURRY WEIGHT 14.2 SLURRY VOL 1.42 WATER gal/sk _____ CEMENT LEFT In CASING 21'
 DISPLACEMENT 111 3/4 bbl DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safety meeting & rig upon well run float equip. turbolizers on 1, 2, 4, 7, 11, 59, 61, 76 baskets on 8, 8, 60, 75 Port collar top of 60 @ 224 running to be then pump ball then circulate 1 1/2 hrs mix mud flush with water spacers mix 170 SKS Thixobland III shut down release plug clean pump & lines and displace with 111 bbl fresh water 1000 # linear first plug loaded @ 1500 released back & plug hold press back to 500 & shut in for 2 hours

20 SKS Move to
30 SKS Kothole

Thank you
Jerry & crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE0454	1	PUMP CHARGE	3900.00	3900.00
CE0002	45	MILEAGE	7.3	328.50
CE0710	10.34	ton mileage delivery	125	814.28
CC5862	220 SKS	Thixobland III	26.00	5720.00
CC6077	1100 #	Kal seal	50	550.00
CC6000	55 #	CDI-26	7.85	431.75
CC6155	31 #	C.A.F-38	10.20	316.20
CC6125	500 gal	mud flush	65	325.00
CP8485	1	5 1/2 AFU float shoe	585.00	585.00
CP8254	1	5 1/2 latch down assy	400.00	400.00
CP8576	8	5 1/2 turbolizers	110.00	880.00
CP8629	4	5 1/2 baskets	385.00	1540.00
CP8776	1	5 1/2 Port Collar # 150695	2850.00	2850.00
			sub total	18633.98
			-40%	8385.99
			sub total	10248.00
				560.92
			SALES TAX	1217.84
			ESTIMATED TOTAL	11465.84

Revin 3737

AUTHORIZATION Gary Rowe TITLE _____ DATE 10/8/09

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



CONSOLIDATED
Oil Well Services, LLC

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

6437
6340

TICKET NUMBER 51536
LOCATION Ogkly, Ks
FOREMAN Jerry

FIELD TICKET & TREATMENT REPORT
CEMENT **INVOICE # 90340** **KS**

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
8-16-16	7173	Anderson 32B #1	32	19S	30W	Lea
CUSTOMER			TRUCK #			
Mailing Address			DRIVER			
CITY			TRUCK #			
STATE			DRIVER			
ZIP CODE			TRUCK #			

JOB TYPE Port Collar HOLE SIZE _____ HOLE DEPTH _____ CASING SIZE & WEIGHT 5 1/2 15.5
 CASING DEPTH _____ DRILL PIPE _____ TUBING 2 7/8 OTHER PC @ 12.1
 SLURRY WEIGHT 12.5 SLURRY VOL 1.89 WATER gal/sk _____ CEMENT LEFT In CASING _____
 DISPLACEMENT 12 bbl DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safety meeting & rig up on Husco service test tool @ 1200 hold 5 min
open tool take inj rate 4 bbl per @ 500 # mix 235 sks Lite blend VII 1/2 # flo seal
wash up & displace with 12 bbl flo seal press to 1200 # set 10 min release back
run 10 jts & reverse out with 35 bbl pull tubing & press casing to 500 # & shut in

Cement did circulate

Thank you
Jerry

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE0451	1	PUMP CHARGE	1900.00	1900.00
CE0002	45	MILEAGE	7.15	321.75
CE0710	10.10	40m mileage delivery	77.75	795.39
CC5831	235 sks	Lite blend VII	17.50	4112.50
CC6075	59 #	flo seal	3.00	177.00
CC6080	500 #	cotton seed hulls	.50	250.00
			subtotal	7556.64
			- 45%	3400.48
			subtotal	4156.15
			SALES TAX	187.26
			ESTIMATED TOTAL	4343.41

Flavin 3737

AUTHORIZATION Cory Rowe TITLE _____ DATE _____

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Ritchie Exploration Inc
8100 E 22d St n 700
Wichita, KS 67278
ATTN: John Goldsmith

32-19s-30w Lane, KS

Anderson 32B #1

Job Ticket: 65498

DST#: 1

Test Start: 2016.08.08 @ 06:25:02

GENERAL INFORMATION:

Formation: **LKC L**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:27:32

Time Test Ended: 13:06:32

Test Type: Conventional Bottom Hole (Initial)

Tester: Brandon Turley

Unit No: 79

Interval: 4310.00 ft (KB) To 4344.00 ft (KB) (TVD)

Total Depth: 4344.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2934.00 ft (KB)

2929.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8166 Outside

Press@RunDepth: 73.90 psig @ 4311.00 ft (KB)

Start Date: 2016.08.08

End Date:

2016.08.08

Start Time: 06:25:07

End Time:

13:06:31

Capacity: 8000.00 psig

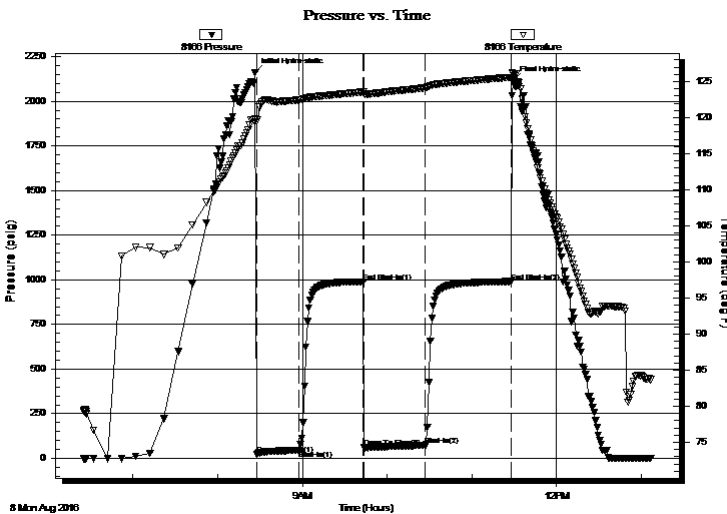
Last Calib.: 2016.08.08

Time On Btm: 2016.08.08 @ 08:26:32

Time Off Btm: 2016.08.08 @ 11:29:02

TEST COMMENT: IF: 1/4 blow built to 5 in 30 min.
IS: No return.
FF: Surface blow built to 1 1/4 in 45 min.
FS: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2161.16	119.79	Initial Hydro-static
1	20.61	119.46	Open To Flow (1)
31	46.12	122.46	Shut-In(1)
77	989.39	123.57	End Shut-In(1)
77	60.73	123.31	Open To Flow (2)
121	73.90	124.15	Shut-In(2)
181	990.53	125.59	End Shut-In(2)
183	2117.57	126.10	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	ocmw 5%o 65%w 30%m	0.30
60.00	ocm 10%o 90%m	0.30
30.00	oil 100%o	0.42

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration Inc

32-19s-30w Lane, KS

8100 E 22d St n 700
Wichita, KS 67278

Anderson 32B #1

Job Ticket: 65498

DST#: 1

ATTN: John Goldsmith

Test Start: 2016.08.08 @ 06:25:02

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

23 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

13000 ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.40 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2400.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	ocmw 5%o 65%w 30%m	0.295
60.00	ocm 10%o 90%m	0.295
30.00	oil 100%o	0.421

Total Length: 150.00 ft Total Volume: 1.011 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

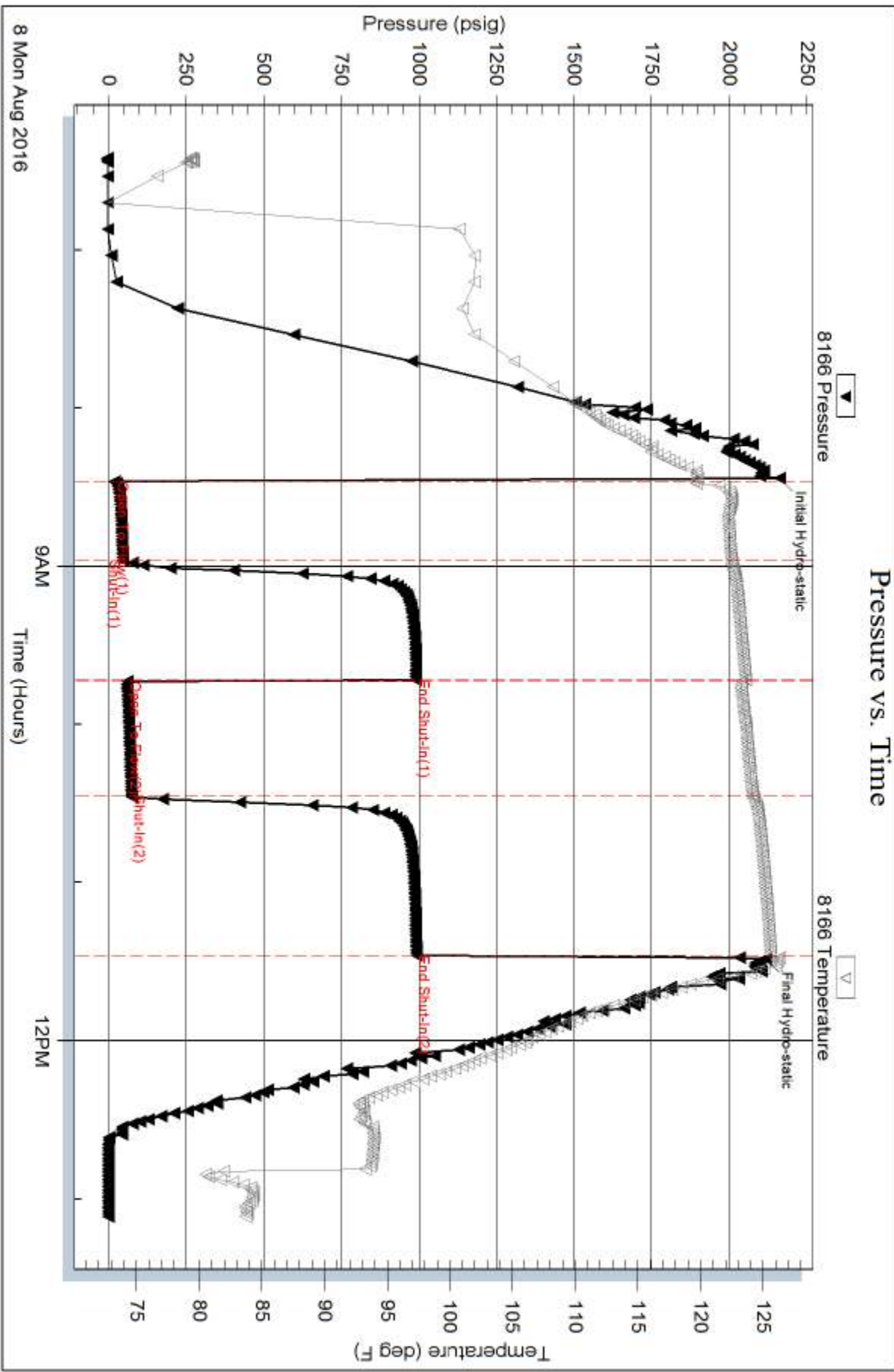
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 25@80=23

.47@79=13000



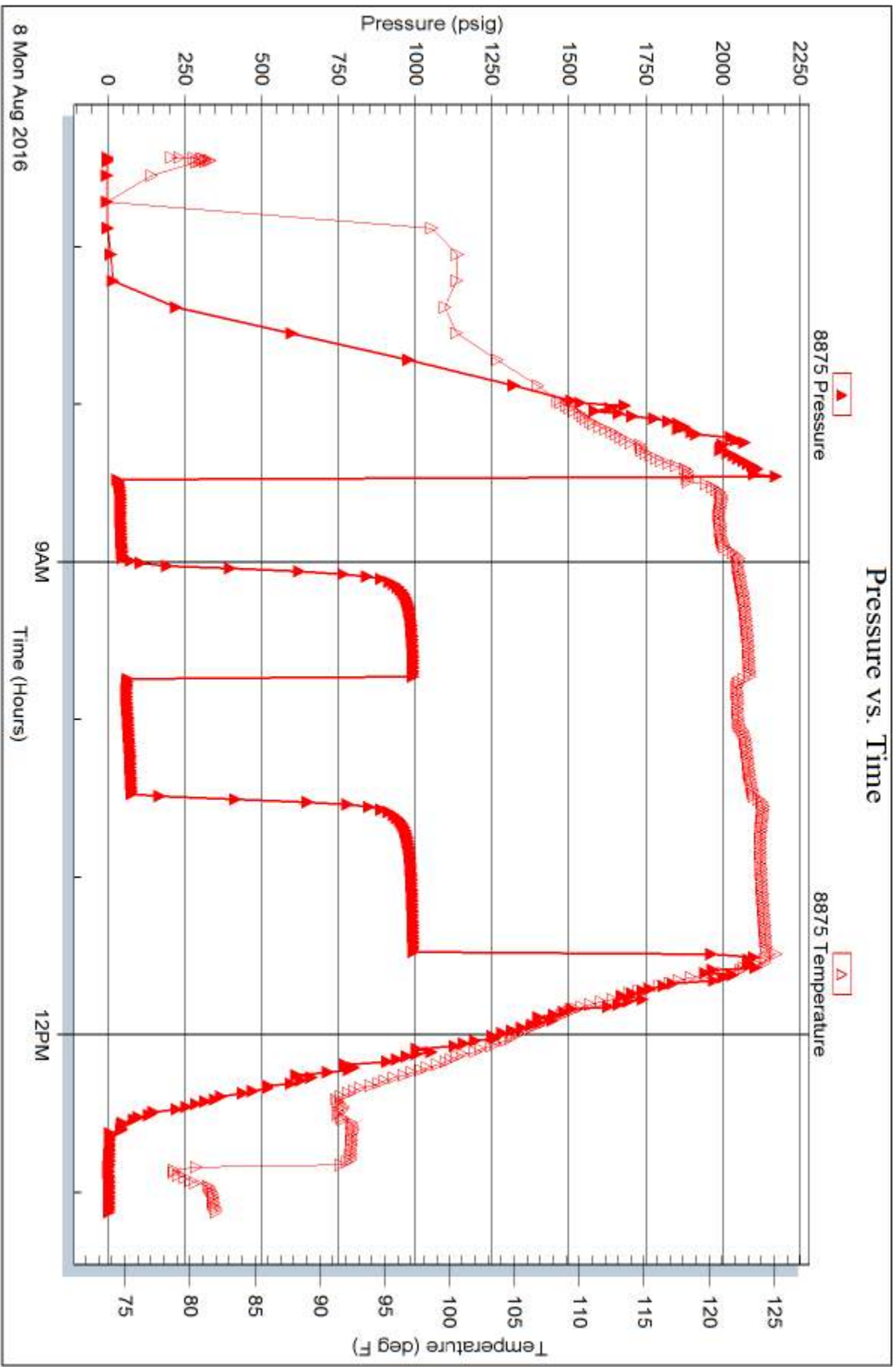
Serial #: 8875

Inside

Richie Exploration Inc

Anderson 32B #1

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 65498

Printed: 2016.08.08 @ 14:05:48



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Ritchie Exploration Inc
8100 E 22d St n 700
Wichita, Ks 67278
ATTN: John Goldsmith

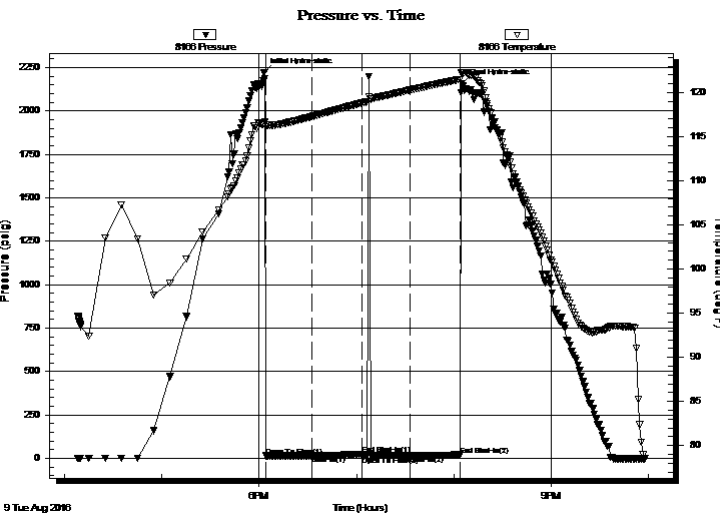
32-19s-30w Lane, Ks
Anderson 32B #1
Job Ticket: 65500 **DST#: 3**
Test Start: 2016.08.09 @ 16:08:06

GENERAL INFORMATION:

Formation: **Altamont C**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 18:04:06
Time Test Ended: 21:57:36
Interval: **4442.00 ft (KB) To 4466.00 ft (KB) (TVD)**
Total Depth: 4466.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Reset)
Tester: Brandon Turley
Unit No: 79
Reference Elevations: 2934.00 ft (KB)
2929.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8166 Outside
Press@RunDepth: 16.42 psig @ 4443.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2016.08.09 End Date: 2016.08.09 Last Calib.: 2016.08.09
Start Time: 16:08:11 End Time: 21:57:35 Time On Btm: 2016.08.09 @ 18:03:06
Time Off Btm: 2016.08.09 @ 20:05:06

TEST COMMENT: IF: Surface blow died in 6 min.
IS: No return.
FF: No blow. Flushed the tool no blow.
FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2222.68	116.61	Initial Hydro-static
1	15.20	116.16	Open To Flow (1)
30	15.59	117.28	Shut-In(1)
60	22.75	118.81	End Shut-In(1)
61	14.76	118.82	Open To Flow (2)
90	16.42	120.29	Shut-In(2)
121	20.70	121.49	End Shut-In(2)
122	2158.85	122.23	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud 100% m	0.02

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration Inc

32-19s-30w Lane, Ks

8100 E 22d St n 700
Wichita, Ks 67278

Anderson 32B #1

Job Ticket: 65500

DST#: 3

ATTN: John Goldsmith

Test Start: 2016.08.09 @ 16:08:06

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 63.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.59 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	mud 100%m	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

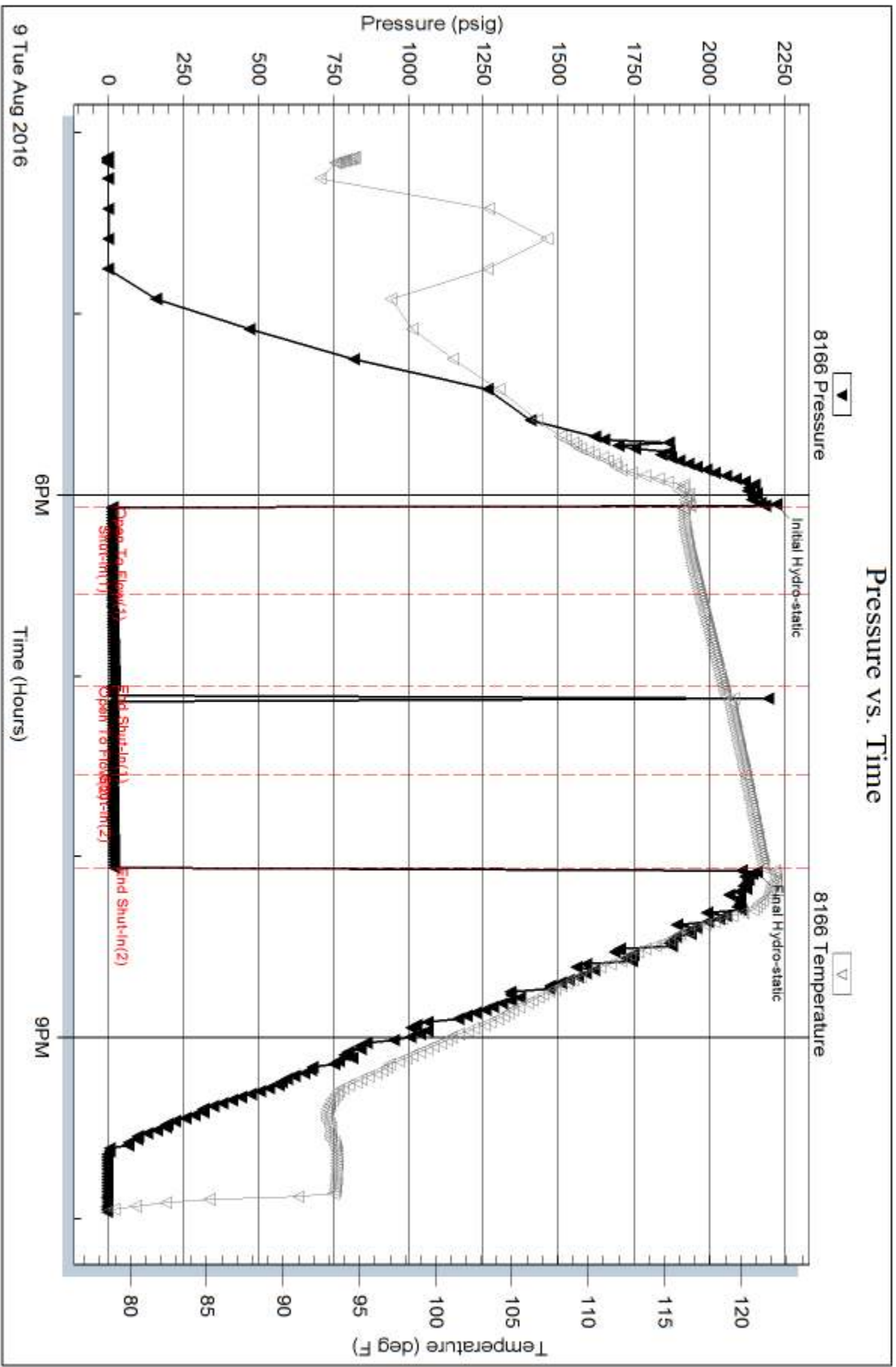
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



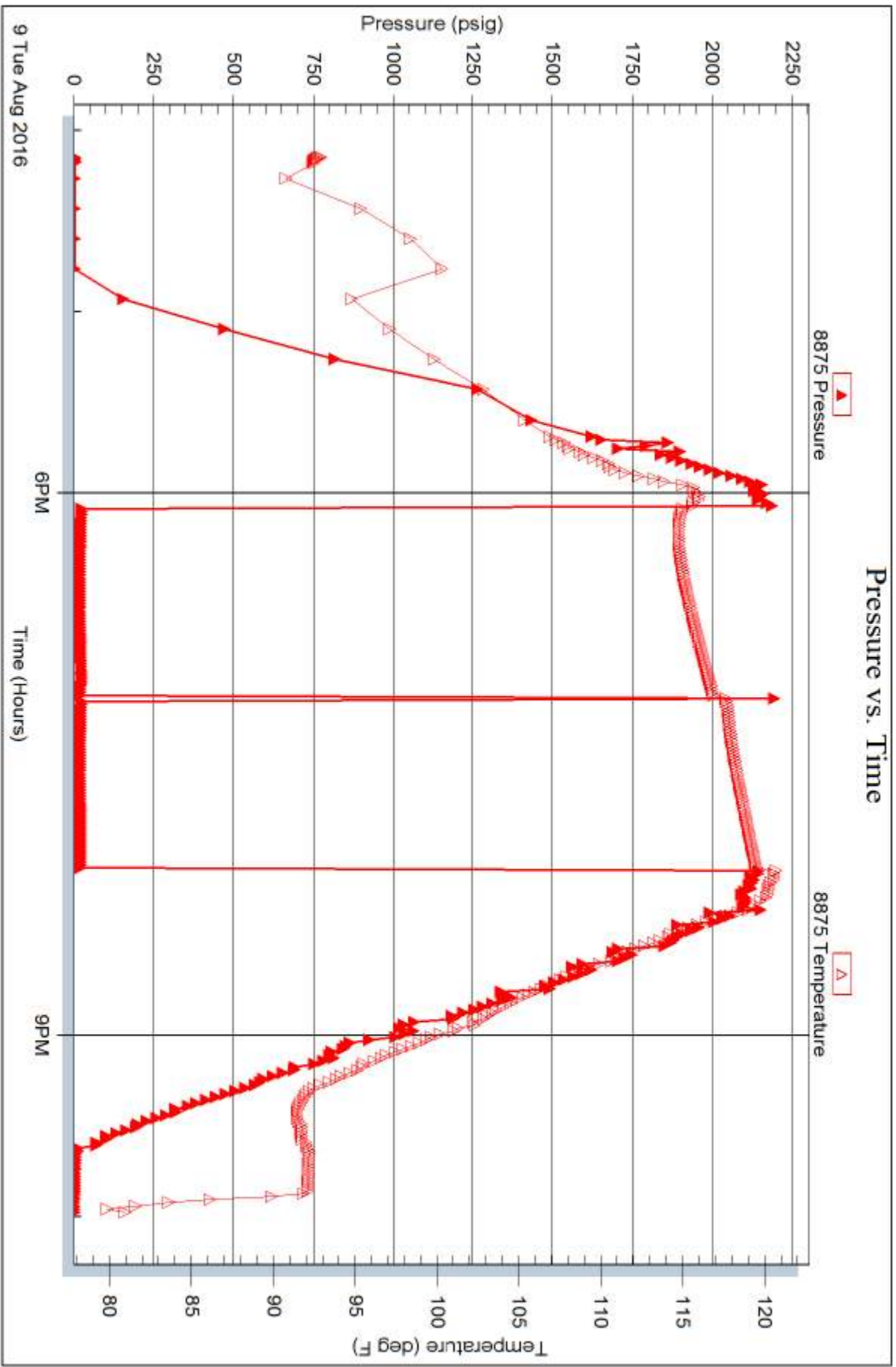
Serial #: 8875

Inside

Richie Exploration Inc

Anderson 32B #1

DST Test Number: 3





**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Ritchie Exploration Inc
8100 E 22d St n 700
Wichita, Ks 67278
ATTN: John Goldsmith

32-19s-30w Lane, Ks
Anderson 32B #1
Job Ticket: 65499 **DST#: 2**
Test Start: 2016.08.09 @ 01:42:43

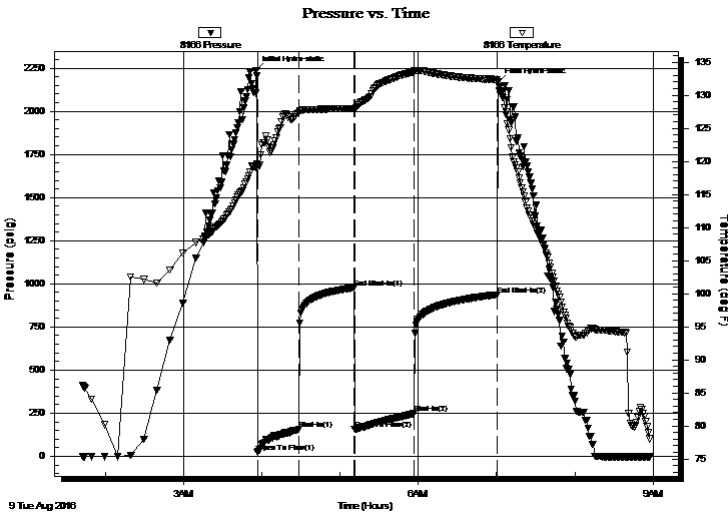
GENERAL INFORMATION:

Formation: **Altamont A**
Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Reset)
Time Tool Opened: 03:56:43 Tester: Brandon Turley
Time Test Ended: 08:57:13 Unit No: 79
Interval: 4385.00 ft (KB) To 4440.00 ft (KB) (TVD) Reference Elevations: 2934.00 ft (KB)
Total Depth: 4440.00 ft (KB) (TVD) 2929.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 5.00 ft

Serial #: 8166 Outside
Press@RunDepth: 251.73 psig @ 4386.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2016.08.09 End Date: 2016.08.09 Last Calib.: 2016.08.09
Start Time: 01:42:48 End Time: 08:57:12 Time On Btm: 2016.08.09 @ 03:55:43
Time Off Btm: 2016.08.09 @ 07:01:13

TEST COMMENT: IF: BOB in 17 min.
IS: No return.
FF: BOB in 22 min.
FS: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2236.66	119.28	Initial Hydro-static
1	24.24	119.09	Open To Flow (1)
33	155.33	127.32	Shut-In(1)
75	977.41	128.01	End Shut-In(1)
76	157.57	127.78	Open To Flow (2)
121	251.73	133.51	Shut-In(2)
185	936.72	132.35	End Shut-In(2)
186	2167.88	132.08	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
189.00	ocmw 10%o 60%w 30%m	1.56
126.00	gocw m 10%g 10%o 20%w 60%m	1.77
217.00	ocm 10%o 90%m	3.04

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration Inc

32-19s-30w Lane, Ks

8100 E 22d St n 700
Wichita, Ks 67278

Anderson 32B #1

Job Ticket: 65499

DST#: 2

ATTN: John Goldsmith

Test Start: 2016.08.09 @ 01:42:43

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

25000 ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
189.00	ocmw 10%o 60%w 30%m	1.558
126.00	gocw m 10%g 10%o 20%w 60%m	1.767
217.00	ocm 10%o 90%m	3.044

Total Length: 532.00 ft Total Volume: 6.369 bbl

Num Fluid Samples: 0

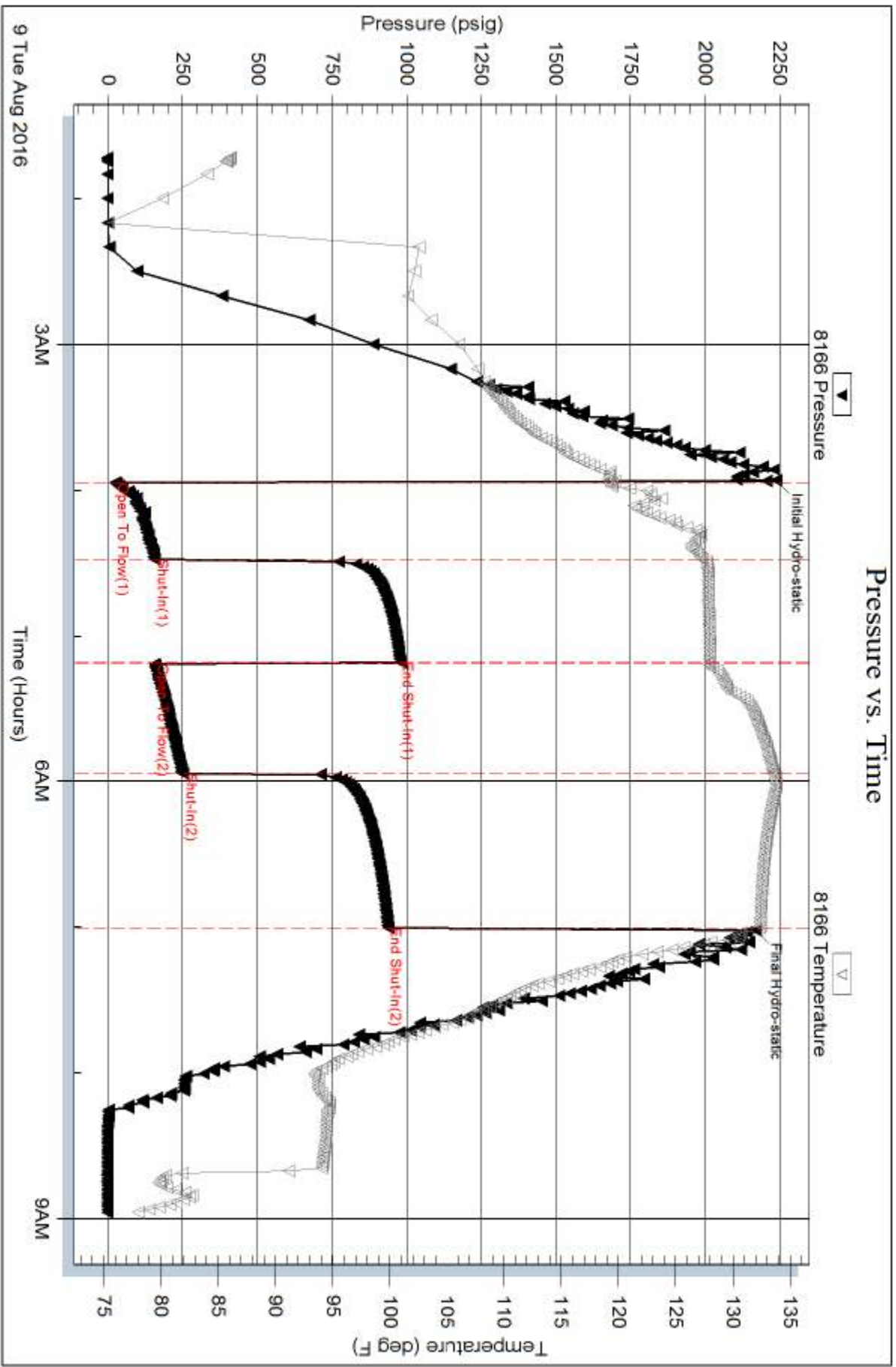
Num Gas Bombs: 0

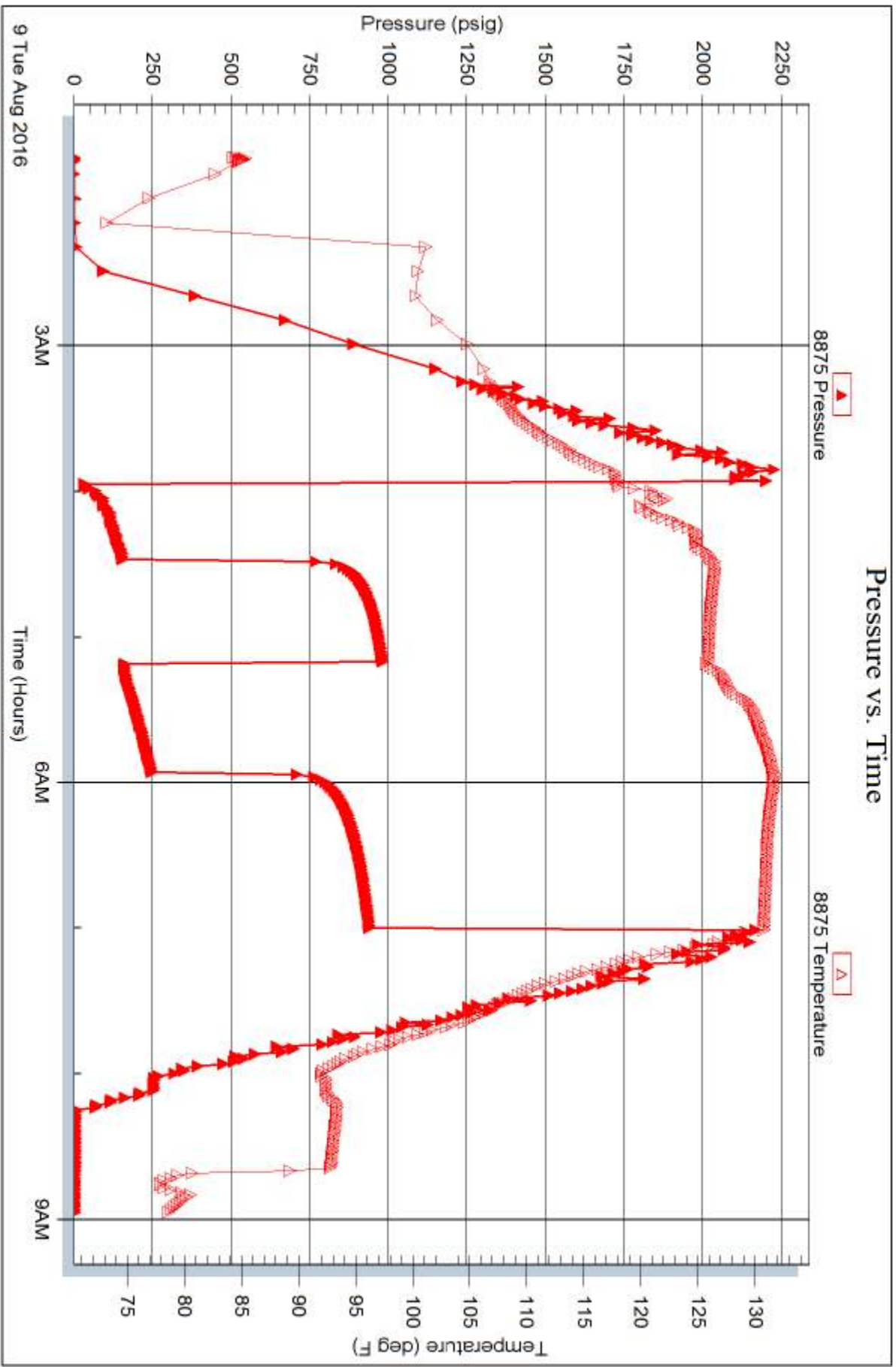
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .25@78=25000







**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Ritchie Exploration Inc
8100 E 22d St n 700
Wichita, Ks 67278
ATTN: John Goldsmith

32-19s-30w Lane, Ks
Anderson 32B #1
Job Ticket: 65501 **DST#: 4**
Test Start: 2016.08.10 @ 10:18:13

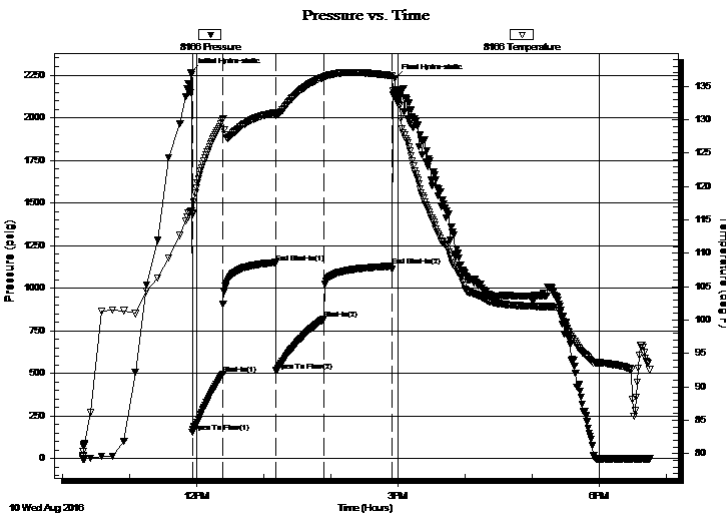
GENERAL INFORMATION:

Formation: **Pawnee- Ft Scott**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 11:56:13
Time Test Ended: 18:44:43
Interval: **4475.00 ft (KB) To 4549.00 ft (KB) (TVD)**
Total Depth: 4549.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Reference Elevations: 2934.00 ft (KB)
2929.00 ft (CF)
KB to GR/CF: 5.00 ft
Test Type: Conventional Bottom Hole (Reset)
Tester: Brandon Turley
Unit No: 79

Serial #: 8166 Outside
Press@RunDepth: 820.24 psig @ 4476.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2016.08.10 End Date: 2016.08.10 Last Calib.: 2016.08.10
Start Time: 10:18:18 End Time: 18:44:42 Time On Btm: 2016.08.10 @ 11:55:13
Time Off Btm: 2016.08.10 @ 14:57:13

TEST COMMENT: IF: BOB in 1 1/2 min.
IS: BOB in 7 min.
FF: BOB in 2 min.
FS: BOB in 30 min.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2265.99	116.33	Initial Hydro-static
1	152.52	115.84	Open To Flow (1)
28	496.23	129.99	Shut-In(1)
76	1150.55	131.03	End Shut-In(1)
76	514.85	130.87	Open To Flow (2)
119	820.24	136.39	Shut-In(2)
179	1129.24	136.58	End Shut-In(2)
182	2228.01	133.51	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
63.00	gocm 20%g 10%o 70%m	0.31
126.00	mcco 20%g 60%o 20%m	1.25
1827.00	go 40%g 60%o	25.63
239.00	go 20%g 80%o	3.35
0.00	1525 GIP	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration Inc

32-19s-30w Lane, Ks

8100 E 22d St n 700
Wichita, Ks 67278

Anderson 32B #1

Job Ticket: 65501

DST#: 4

ATTN: John Goldsmith

Test Start: 2016.08.10 @ 10:18:13

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

35 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 63.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.59 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
63.00	gocm 20%g 10%o 70%m	0.310
126.00	mcgo 20%g 60%o 20%m	1.248
1827.00	go 40%g 60%o	25.628
239.00	go 20%g 80%o	3.353
0.00	1525 GIP	0.000

Total Length: 2255.00 ft Total Volume: 30.539 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

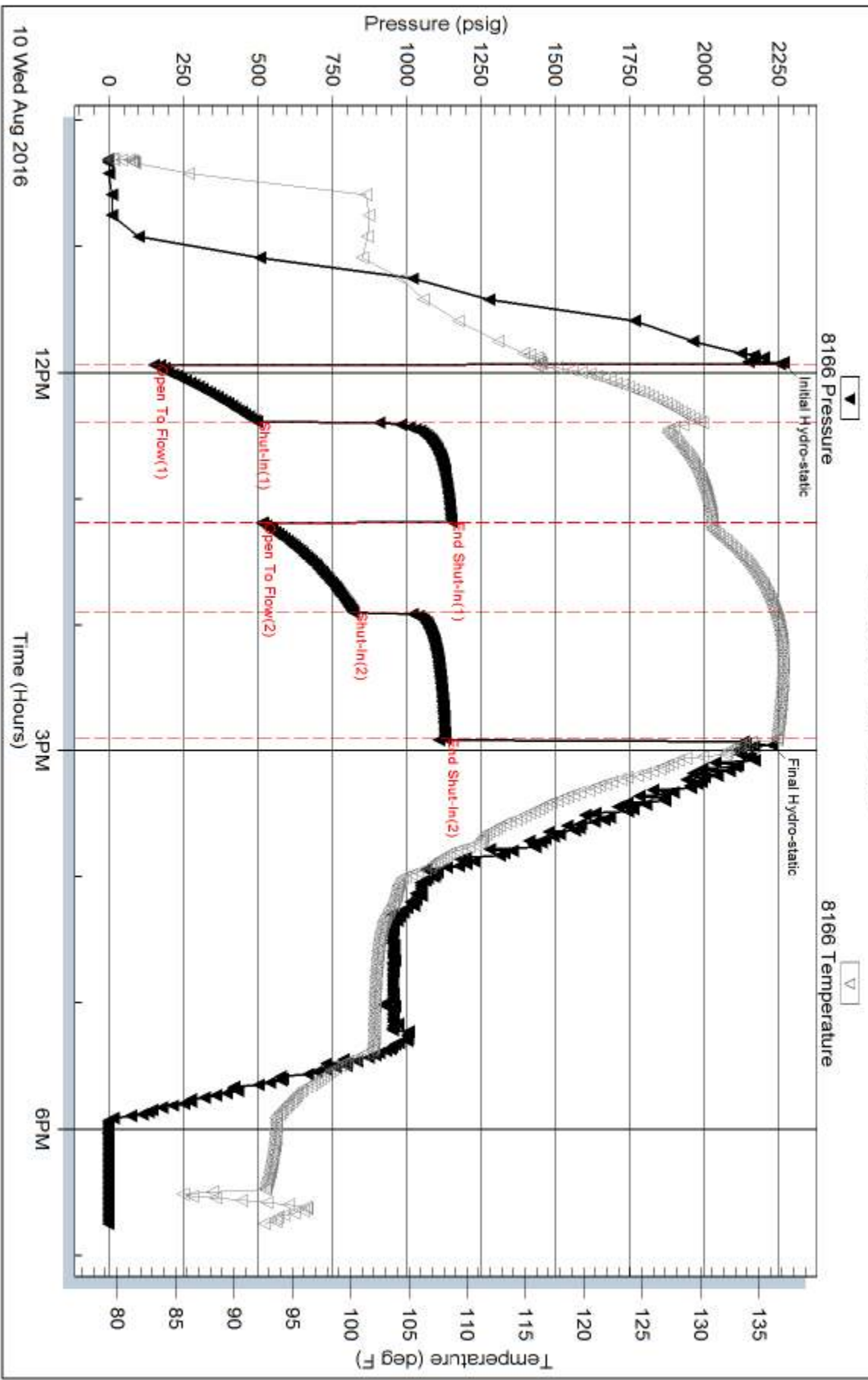
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 38@90=35

Pressure vs. Time



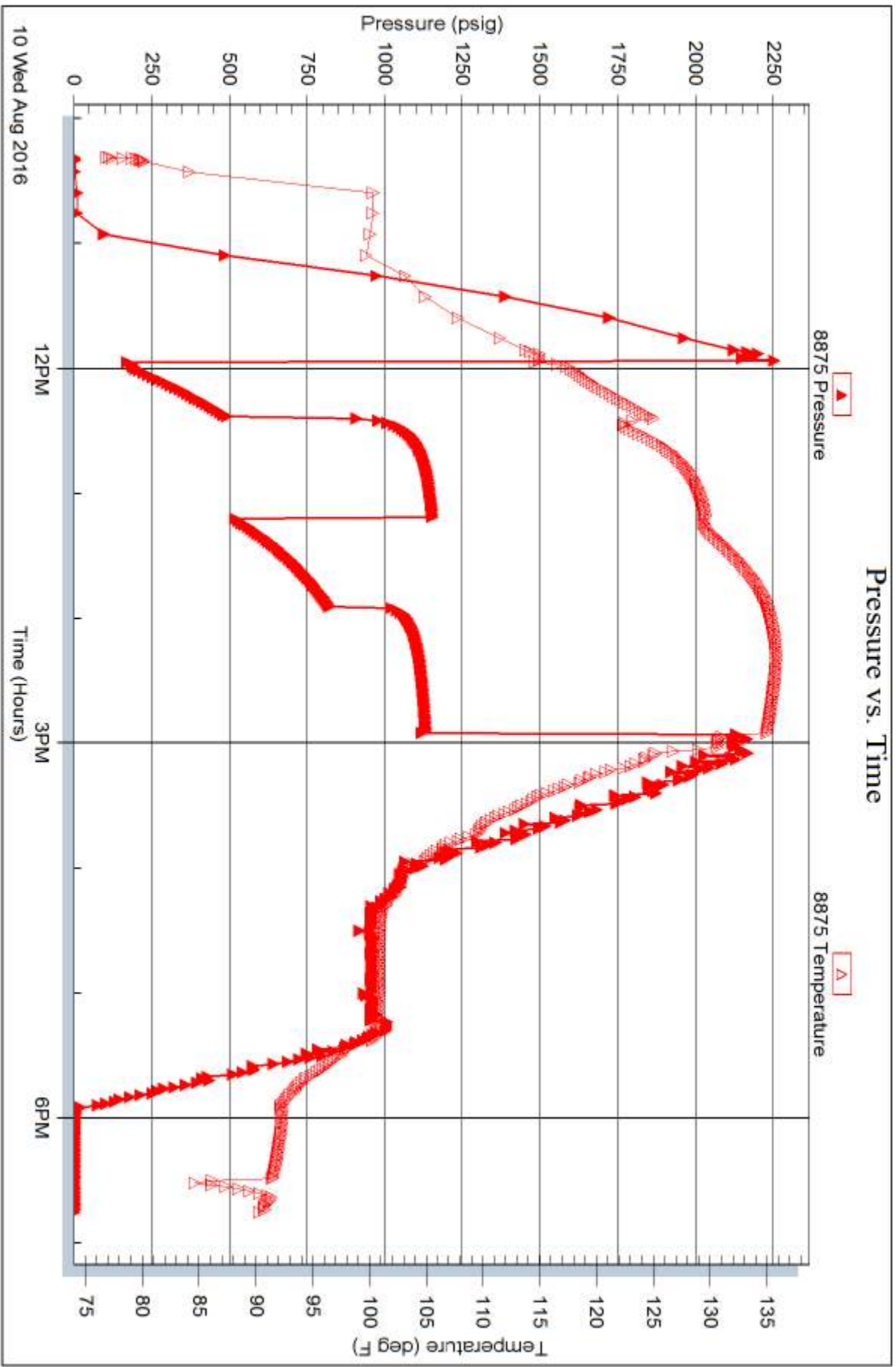
Serial #: 8875

Inside

Ritchie Exploration Inc

Anderson 32B #1

DST Test Number: 4





**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration Inc

32-19s-30w Lane, Ks

8100 E 22d St n 700
Wichita, Ks 67278

Anderson 32B #1

Job Ticket: 65502

DST#: 5

ATTN: John Goldsmith

Test Start: 2016.08.11 @ 05:20:19

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4400.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	mud 100%m	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

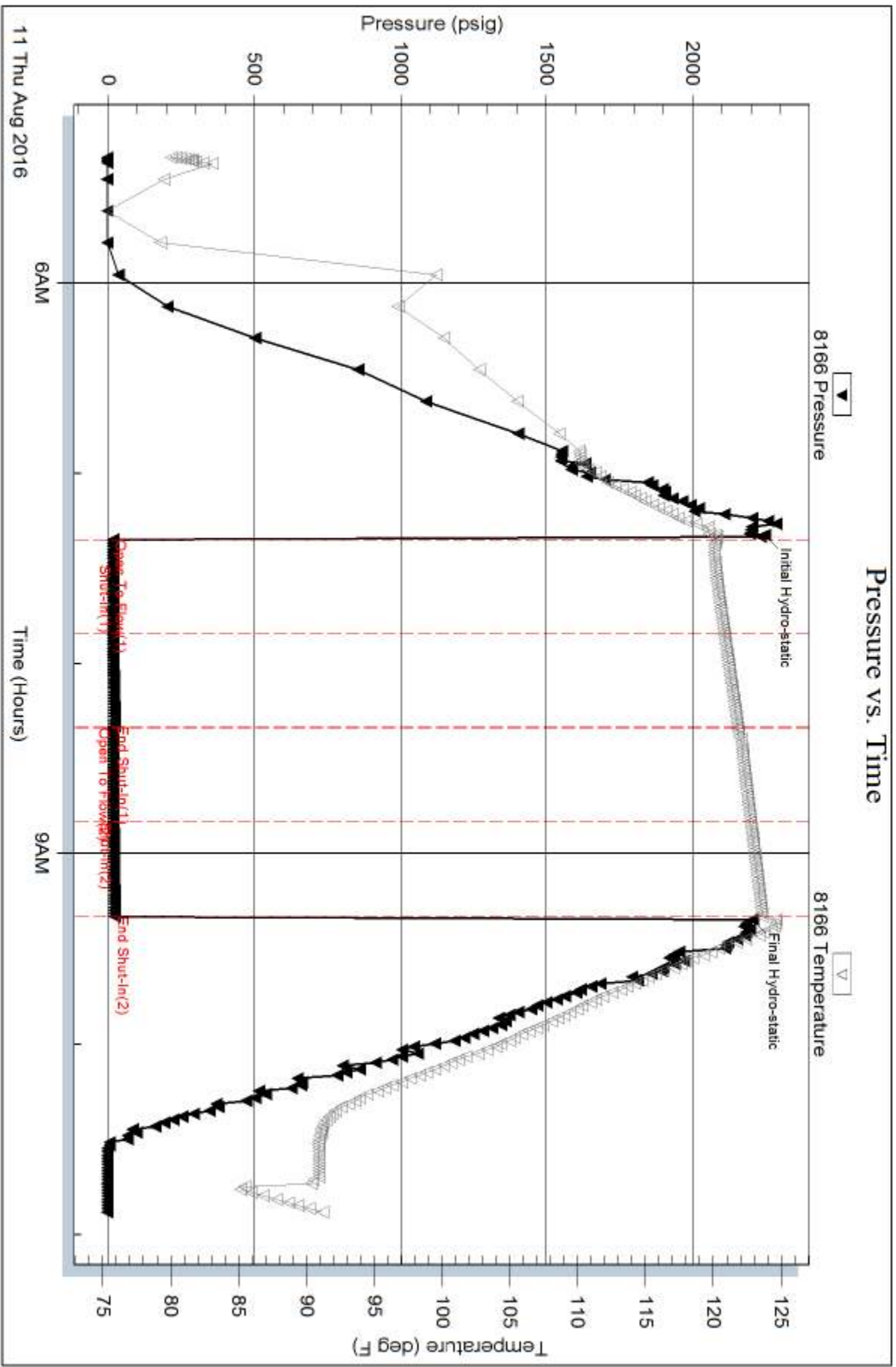
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



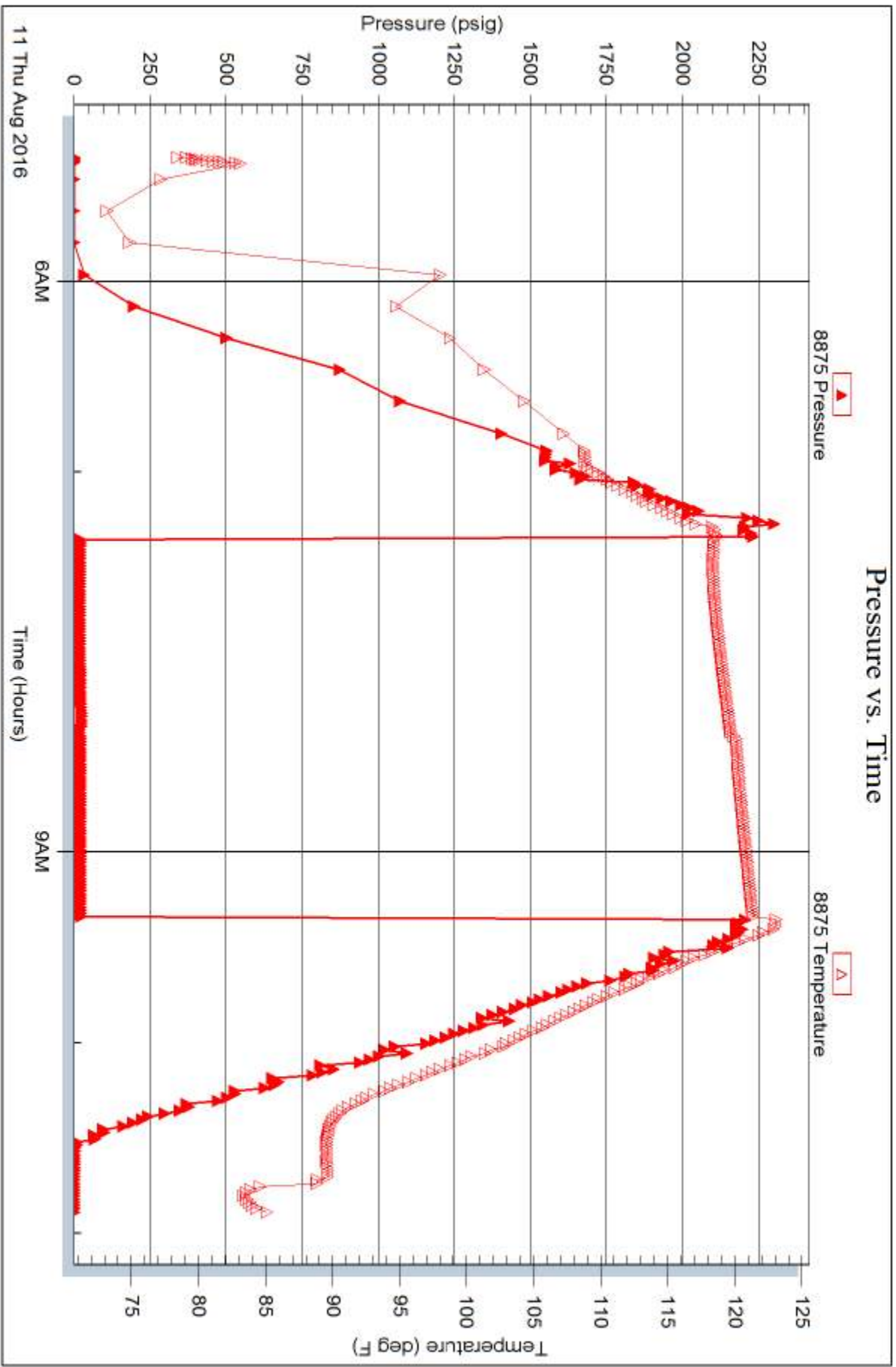
Serial #: 8875

Inside

Richie Exploration Inc

Anderson 32B #1

DST Test Number: 5



Trilobite Testing, Inc

Ref. No: 65502

Printed: 2016.08.11 @ 11:37:16



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Ritchie Exploration Inc
 8100 E 22d St n 700
 Wichita, Ks 67278
 ATTN: John Goldsmith

32-19s-30w Lane, Ks
Anderson 32B #1
 Job Ticket: 65503 **DST#: 6**
 Test Start: 2016.08.11 @ 20:00:09

GENERAL INFORMATION:

Formation: **Miss**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 21:51:09 Tester: Brandon Turley
 Time Test Ended: 03:46:09 Unit No: 79
 Interval: **4604.00 ft (KB) To 4678.00 ft (KB) (TVD)** Reference Elevations: 2934.00 ft (KB)
 Total Depth: 4678.00 ft (KB) (TVD) 2929.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 5.00 ft

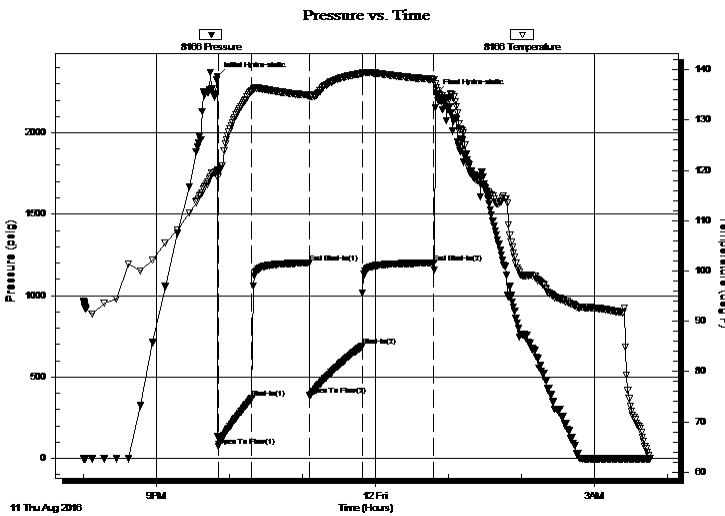
Serial #: 8166

Outside

Press @ Run Depth: 687.91 psig @ 4605.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2016.08.11 End Date: 2016.08.12 Last Calib.: 2016.08.12
 Start Time: 20:00:14 End Time: 03:46:08 Time On Btm: 2016.08.11 @ 21:50:09
 Time Off Btm: 2016.08.12 @ 00:50:09

TEST COMMENT: IF: BOB in 4 min.
 IS: No return.
 FF: BOB in 5 min.
 FS: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2342.79	120.07	Initial Hydro-static
1	73.41	119.82	Open To Flow (1)
29	370.31	135.74	Shut-In(1)
76	1200.04	134.97	End Shut-In(1)
76	385.59	134.72	Open To Flow (2)
119	687.91	139.25	Shut-In(2)
178	1199.83	138.08	End Shut-In(2)
180	2240.15	136.40	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
441.00	ocmw 5%o 85%w 10%m	5.09
378.00	gocmw 30%g 10%o 50%w 10%m	5.30
504.00	ocmw 5%o 70%w 25%m	7.07
220.00	ocw m 10%o 10%w 80%m	3.09
0.00	63 GIP	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration Inc

32-19s-30w Lane, Ks

8100 E 22d St n 700
Wichita, Ks 67278

Anderson 32B #1

Job Ticket: 65503

DST#: 6

ATTN: John Goldsmith

Test Start: 2016.08.11 @ 20:00:09

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

27000 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.59 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
441.00	ocmw 5%o 85%w 10%m	5.093
378.00	gocmw 30%g 10%o 50%w 10%m	5.302
504.00	ocmw 5%o 70%w 25%m	7.070
220.00	ocw m 10%o 10%w 80%m	3.086
0.00	63 GIP	0.000

Total Length: 1543.00 ft Total Volume: 20.551 bbl

Num Fluid Samples: 0

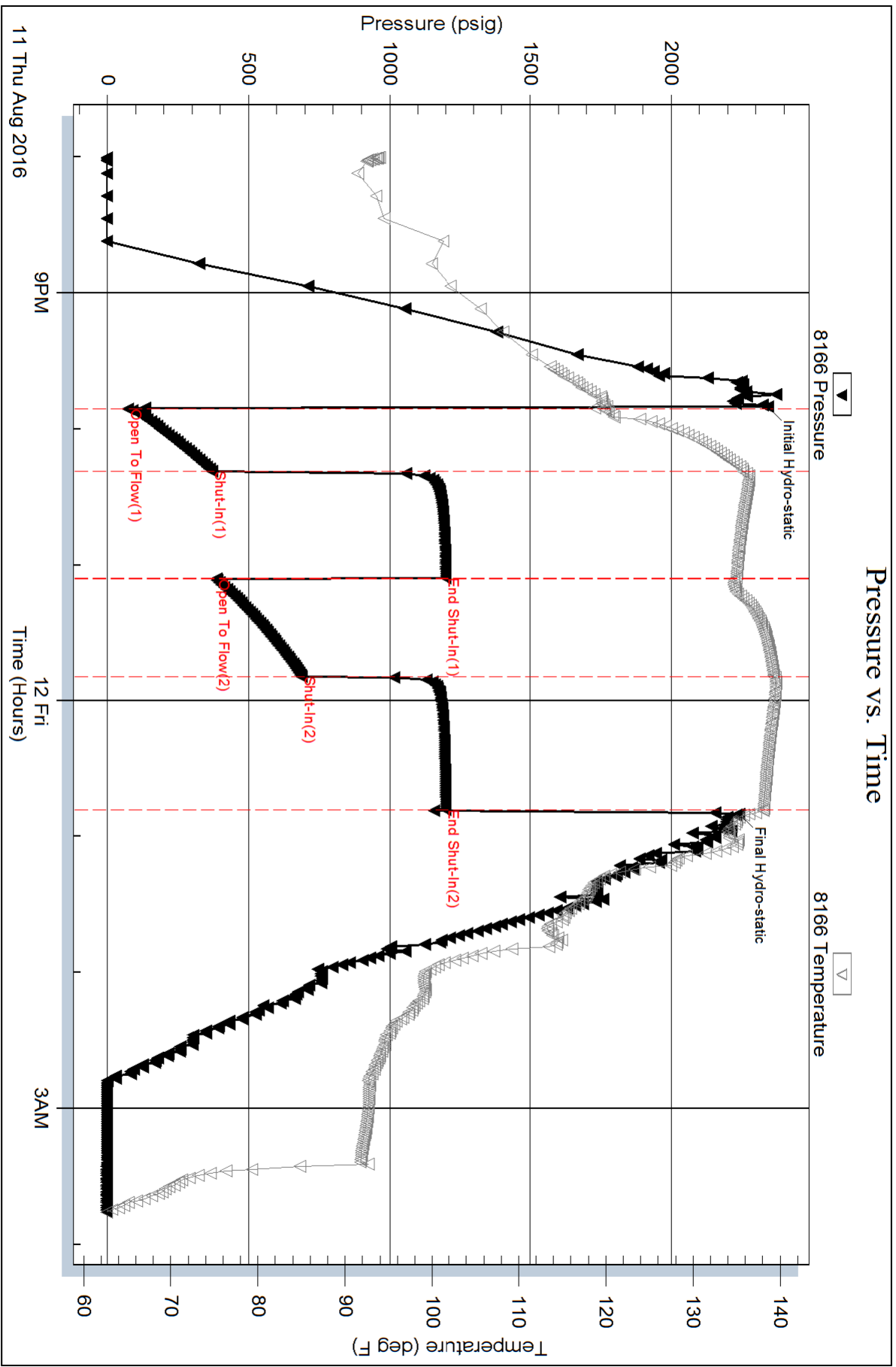
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .26@66=27000



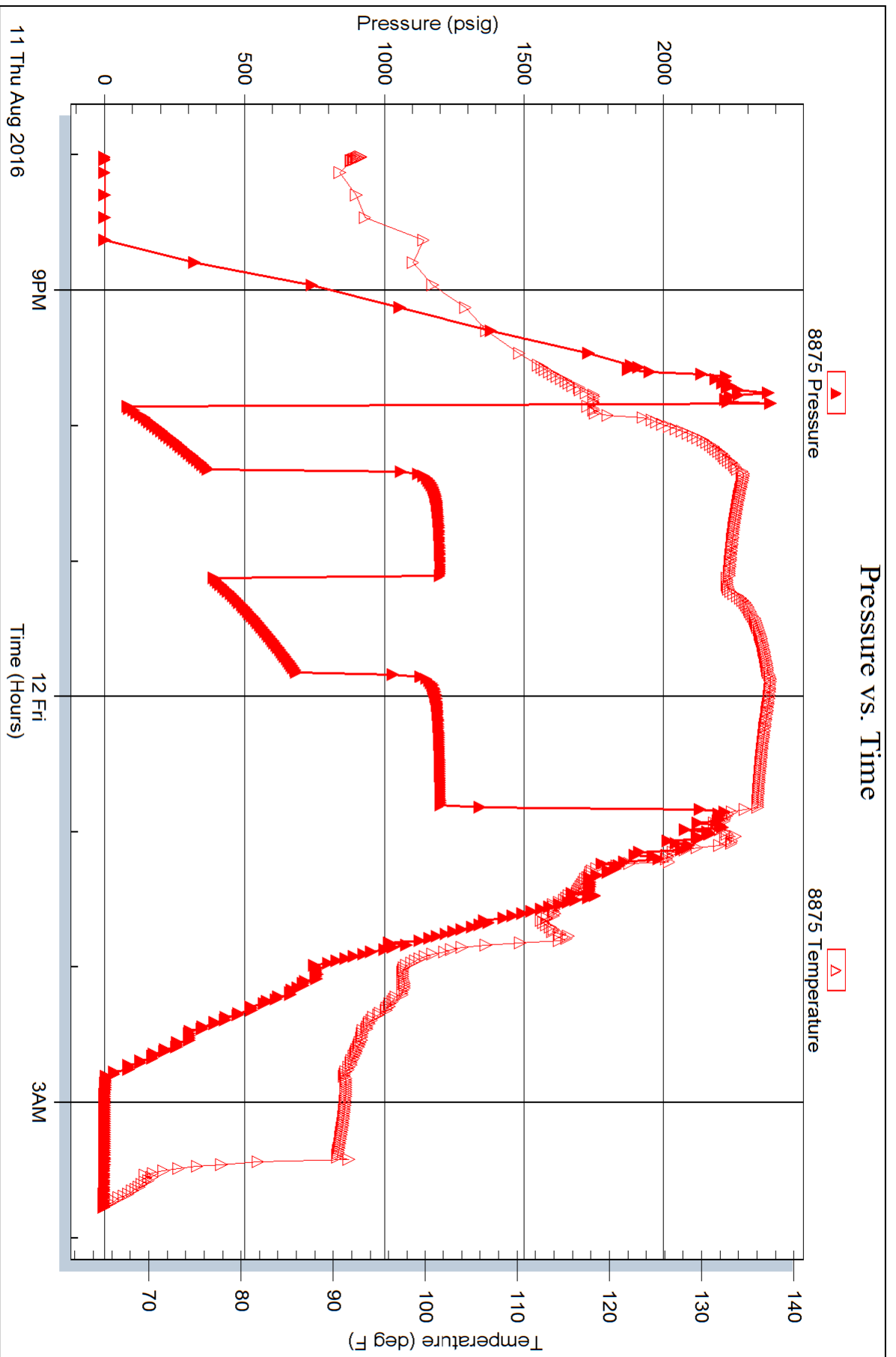
Serial #: 8875

Inside

Ritchie Exploration Inc

Anderson 32B #1

DST Test Number: 6



Trilobite Testing, Inc

Ref. No: 65503

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