



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1209564
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: _____

1209564

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

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

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

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

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

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR: _____ Producing Method:
 Flowing Pumping Gas Lift Other *(Explain)* _____

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Phillips Exploration Company L.C.
Well Name	Miner 2-7
Doc ID	1209564

Tops

Name	Top	Datum
Anhy	1627	+711
B/Anhy	1664	+674
Heeb	3725	-1387
Tor	3744	-1406
Lans	3769	-1431
Ft Scott	4278	-1940
UP Cher	4360	-2022
Miss Cht	4414	-2076

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

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

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

No. 4166

Date	7-20-10	Sec	17	Twp	18	Range	24	County	Ness	State	Ks	On Location		Finish	11:15 pm
Lease	44283	Well No.	MINCART-7		Location 44283 Ranson Jct										
Contractor	Murline Dwg Rig 16				Owner 95 to 170 Rd 6W										
Type Job	Surface				To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.										
Hole Size	12 1/4		T.D.		218										
Csg.	8 5/8		Depth		218										
Tbg. Size			Depth		Charge To Phillips Exploration Co										
Tool			Depth		Street										
Cement Left in Csg.			Shoe Joint		City State										
Meas Line	23#		Displace		13 1/4										
The above was done to satisfaction and supervision of owner agent or contractor.												Cement Amount Ordered 150 cpm 372			

EQUIPMENT

Pumptrk	5	No.	Cementer	Dave S	Common	150
			Helper			
Bulktrk	8	No.	Driver	CISCO S	Poz. Mix	
			Driver			
Bulktrk		No.	Driver		Gel.	3
			Driver			

JOB SERVICES & REMARKS

Remarks:	Hulls
Rat Hole	Salt
Mouse Hole	Flowseal
Centralizers	Kol-Seal
Baskets	Mud CLR 48
D/V or Port Collar	CFL-117 or CD110 CAF 38

Cement C_{in}

Thanks

FLOAT EQUIPMENT

Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	
(Swage P)	
Pumptrk Charge	Surface
Mileage	10

X Signature *Ang [Signature]*

Tax	
Discount	
Total Charge	

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

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

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

No. 4014

50

Date	7-26-10	Sec.	7	Twp.	18	Range	24	County	Ness	State	KS	On Location		Finish	6:00pm
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Lease	Miner	Well No.	27	Location	Arnold 9S 6W S into
-------	-------	----------	----	----------	---------------------

Contractor	Murfin 16	Owner	
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Type Job	Rozary plug	To Quality Oilwell Cementing, Inc.	
Hole Size	7 7/8	You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.	

Csg.		Depth	1650	Charge To	Phillips Exploration
------	--	-------	------	-----------	----------------------

Tbg. Size	4 1/2 BX-hole	Depth	870	Street	
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Tool	D.P.	Depth	240	City		State	
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Cement Left in Csg.		Shoe Joint		The above was done to satisfaction and supervision of owner agent or contractor.		
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Meas Line		Displace		Cement Amount Ordered	235 6/40 490 gel 1/4 lb Pto
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EQUIPMENT

Pumptrk	5	No.	Cementer	Brandon	4 1/2	Common	141
			Helper				
Bulktrk	4	No.	Driver	Doug Paul	4 1/2	Poz. Mix	94
			Driver				
Bulktrk	PH	No.	Driver	Doug	4 1/2	Gel.	8
			Driver				

JOB SERVICES & REMARKS

Remarks:		Calcium	
Rat Hole		Hulls	
Mouse Hole		Salt	
Centralizers		Flowseal	58#
Baskets		Kol-Seal	
D/V or Port Collar		Mud CLR 48	
Mix	50sx @ 1650'	CFL-117 or CD110 CAF 38	
Mix	75sx @ 870'	Sand	
Mix	40sx @ 240'	Handling	243
Mix	20sx @ 60'	Mileage	10

FLOAT EQUIPMENT

Mix	30sx in RH	Guide Shoe	
MV	20sx in MH	Centralizer	
		Baskets	
		AFU Inserts	
		Float Shoe	
		Latch Down	
		1-8 5/8 wood plug	
		Dry hole plug	
		Pumptrk Charge	
		Mileage	10

Thank You

Signature *Ray [unclear]*

Tax	
Discount	
Total Charge	



DRILL STEM TEST REPORT

Prepared For: **Phillips Exploration Co. LC**

1601 Sagebrush
Wichita Ks 67230-7010

ATTN: James B. Phillips

7 18S 24W Ness KS

Miner 2-7

Start Date: 2010.07.25 @ 13:58:30

End Date: 2010.07.25 @ 20:34:30

Job Ticket #: 36210 DST #: 1

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

Printed: 2014.06.12 @ 08:14:35

Phillips Exploration Co. LC
Miner 2-7
7 18S 24W Ness KS
DST # 1
Cherokee Sand
2010.07.25



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Phillips Exploration Co. LC

Miner 2-7

1601 Sagebrush
Wichita Ks 67230-7010

7 18S 24W Ness KS

ATTN: James B. Phillips

Job Ticket: 36210

DST#: 1

Test Start: 2010.07.25 @ 13:58:30

GENERAL INFORMATION:

Formation: **Cherokee Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:43:30

Time Test Ended: 20:34:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Jeff Brown

Unit No: 44

Interval: 4286.00 ft (KB) To 4366.00 ft (KB) (TVD)

Reference Elevations: 2338.00 ft (KB)

Total Depth: 4366.00 ft (KB) (TVD)

2333.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8321 Inside

Press@RunDepth: 40.22 psig @ 4289.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.07.25 End Date: 2010.07.25

Last Calib.: 2010.07.25

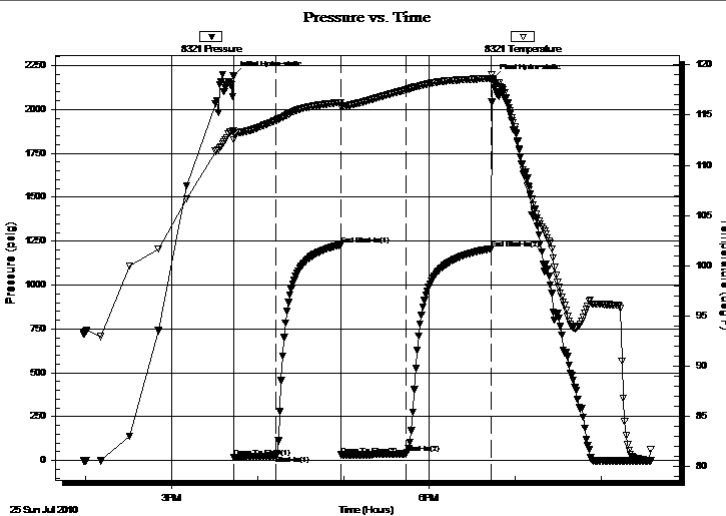
Start Time: 13:58:31 End Time: 20:34:30

Time On Btm: 2010.07.25 @ 15:43:00

Time Off Btm: 2010.07.25 @ 18:44:30

TEST COMMENT: IFP-Weak blow built to 1 1/4 in
ISI-Dead no blow back
FFP-Weak blow built to 1/4 in
FSI-Dead no blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2191.32	113.43	Initial Hydro-static
1	18.44	112.57	Open To Flow (1)
30	27.50	114.47	Shut-In(1)
75	1228.98	116.26	End Shut-In(1)
76	31.82	115.83	Open To Flow (2)
121	40.22	117.52	Shut-In(2)
180	1207.58	118.65	End Shut-In(2)
182	2174.60	118.38	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	WM45%W55%M	0.15
21.00	MW35%M 65%W	0.29

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Phillips Exploration Co. LC

Miner 2-7

1601 Sagebrush
Wichita Ks 67230-7010

7 18S 24W Ness KS

ATTN: James B. Phillips

Job Ticket: 36210

DST#: 1

Test Start: 2010.07.25 @ 13:58:30

GENERAL INFORMATION:

Formation: **Cherokee Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:43:30

Time Test Ended: 20:34:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Jeff Brown

Unit No: 44

Interval: 4286.00 ft (KB) To 4366.00 ft (KB) (TVD)

Reference Elevations: 2338.00 ft (KB)

Total Depth: 4366.00 ft (KB) (TVD)

2333.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8672 Outside

Press@RunDepth: psig @ 4289.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.07.25 End Date: 2010.07.25

Last Calib.: 2010.07.25

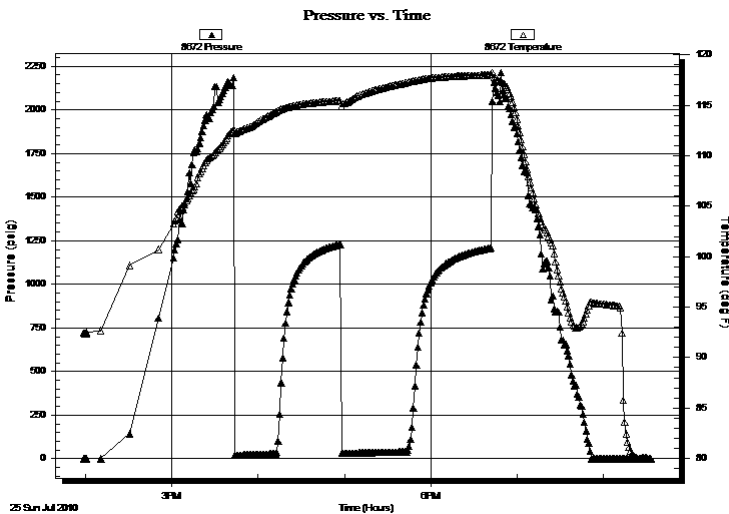
Start Time: 13:58:35 End Time: 20:33:29

Time On Btm:

Time Off Btm:

TEST COMMENT: IFP-Weak blow built to 1 1/4 in
ISI-Dead no blow back
FFP-Weak blow built to 1/4 in
FSI-Dead no blow back

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
30.00	WM45%W55%M	0.15
21.00	MW35%M 65%W	0.29

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Phillips Exploration Co. LC

Miner 2-7

1601 Sagebrush
Wichita Ks 67230-7010

7 18S 24W Ness KS

Job Ticket: 36210

DST#: 1

ATTN: James B. Phillips

Test Start: 2010.07.25 @ 13:58:30

Tool Information

Drill Pipe:	Length: 4248.00 ft	Diameter: 3.80 inches	Volume: 59.59 bbl	Tool Weight:	2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 27.00 inches	Volume: 0.00 bbl	Weight set on Packer:	2500.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	64000.00 lb
			<u>Total Volume: 59.74 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial	50000.00 lb
Depth to Top Packer:	4286.00 ft			Final	52000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	80.00 ft				
Tool Length:	109.00 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			4258.00	
Shut In Tool	5.00			4263.00	
Hydraulic tool	5.00			4268.00	
Jars	5.00			4273.00	
Safety Joint	3.00			4276.00	
Packer	5.00			4281.00	29.00 Bottom Of Top Packer
Packer	5.00			4286.00	
Stubb	1.00			4287.00	
Perforations	1.00			4288.00	
Change Over Sub	1.00			4289.00	
Recorder	0.00	8321	Inside	4289.00	
Recorder	0.00	8672	Outside	4289.00	
Drill Pipe	63.00			4352.00	
Change Over Sub	1.00			4353.00	
Perforations	10.00			4363.00	
Bullnose	3.00			4366.00	80.00 Bottom Packers & Anchor
Total Tool Length:	109.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Phillips Exploration Co. LC

Miner 2-7

1601 Sagebrush
Wichita Ks 67230-7010

7 18S 24W Ness KS

Job Ticket: 36210

DST#: 1

ATTN: James B. Phillips

Test Start: 2010.07.25 @ 13:58:30

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

18000 ppm

Viscosity: 49.00 sec/l

Cushion Volume:

bbbl

Water Loss: 9.58 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4600.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	WM45%W55%M	0.148
21.00	MW35%M 65%W	0.295

Total Length: 51.00 ft Total Volume: 0.443 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

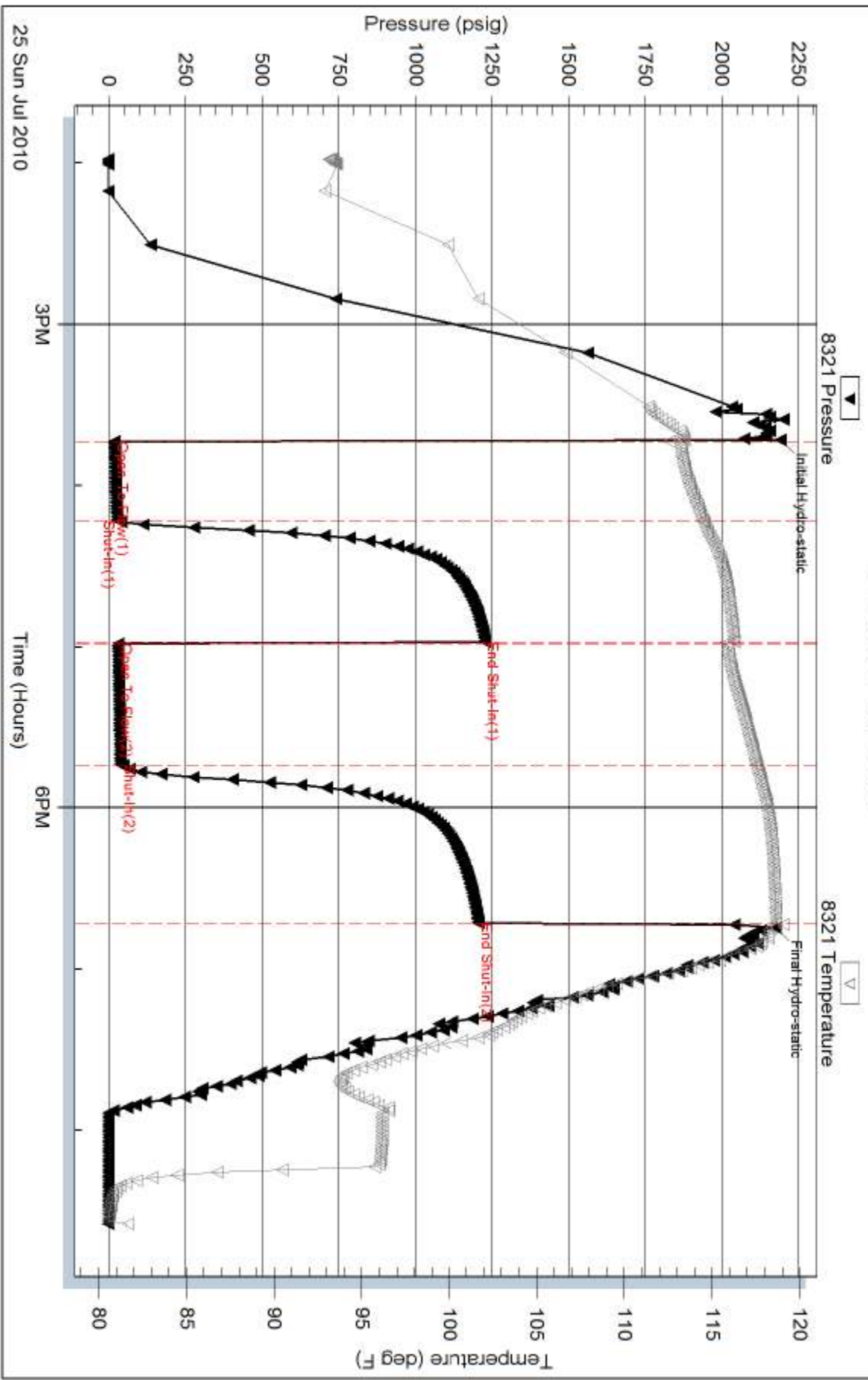
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .328 @ 80.1F = 18000 chlorides

Pressure vs. Time

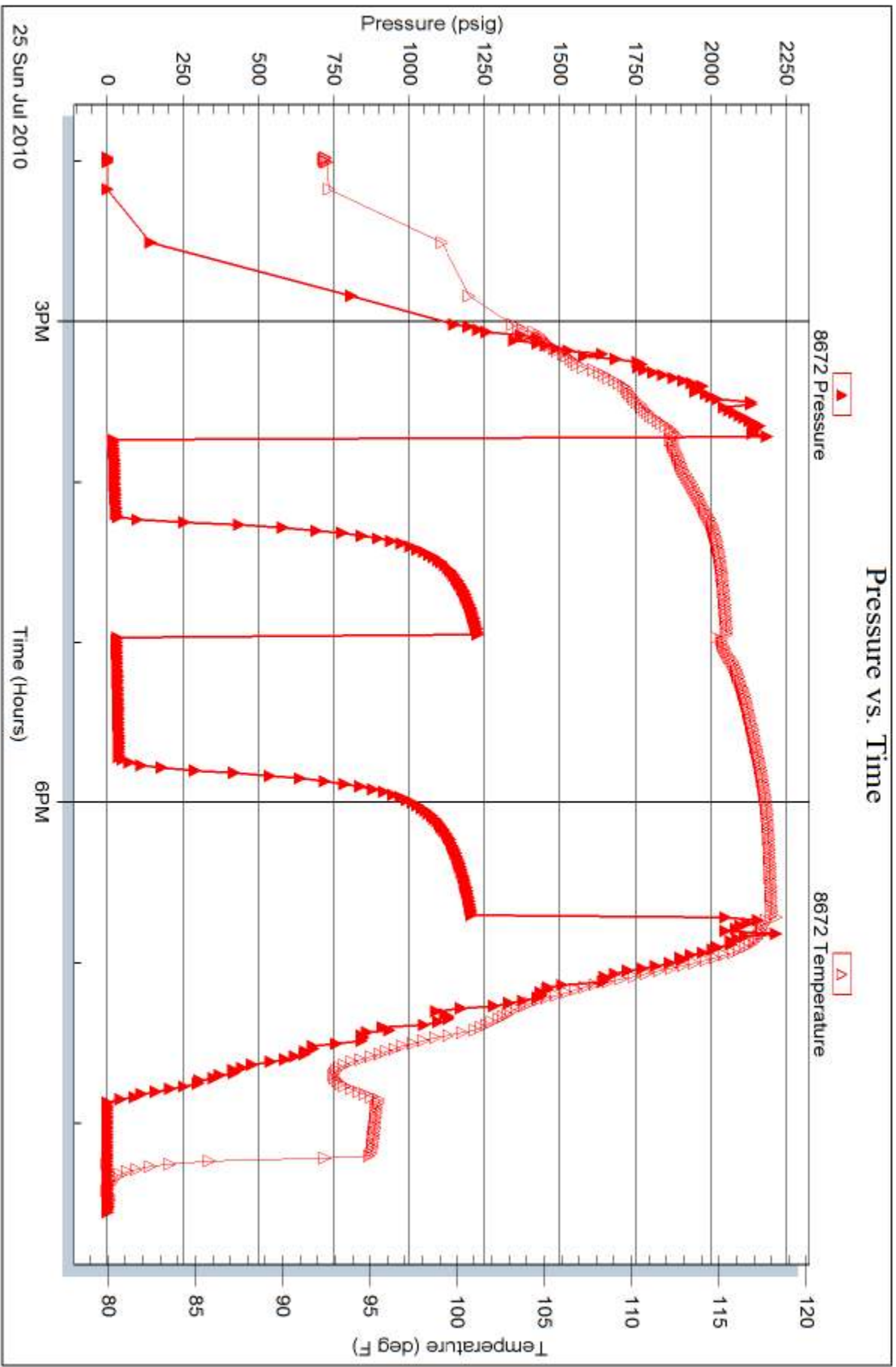


Serial #: 8672

Outside Phillips Exploration Co. LC

7 18S 24W Ness KS

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 36210

Printed: 2014.06.12 @ 08:14:36