



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1200496
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: _____

1200496

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

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

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

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

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

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> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Double D's LLC
Well Name	Gottschalk 1
Doc ID	1200496

All Electric Logs Run

Neutron Porosity
Dual Induction
Micro
Sonic

Form	ACO1 - Well Completion
Operator	Double D's LLC
Well Name	Gottschalk 1
Doc ID	1200496

Tops

Name	Top	Datum
Anhydrite	1498	+709
Base	1542	+665
Topeka	3232	-1025
Heebner	3479	-1272
Toronto	3500	-1293
Lansing	3527	-1320
BKC	3766	-1559
Marmington	3784	-1577
Conglomerate	3796	-1589

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. 7496

Date	Sec.	Twp.	Range	County	State	On Location	Finish
12-13-13	10	14	19	Ellis	KS		11:45pm

Location *Hays & Golf Course Rd W to 200th 3/4 S W into*

Lease *Cottschalk* Well No. *1* Owner

Contractor *Royal #1* To Quality Oilwell Cementing, Inc.
You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.

Type Job *Surface*

Hole Size *12 1/4* T.D. *220'* Charge To *Double D's*

Csg. *8 5/8* Depth *220* Street

Tbg. Size Depth City State

Tool Depth The above was done to satisfaction and supervision of owner agent or contractor.

Cement Left in Csg. *15'* Shoe Joint Cement Amount Ordered *160 com 3/1 CC 2/1 GEL*

Meas Line Displace *13BC* Common *160 160*

EQUIPMENT

Pumptrk	No.	Cementor		Common	
<i>5</i>		<i>Chris</i>		<i>160</i>	
		Helper		Poz. Mix	

Bulktrk	No.	Driver		Gel.	
		<i>Brett</i>		<i>3</i>	
		Driver		Calcium	

Bulktrk	No.	Driver		Hulls	
<i>1</i>		<i>Doug</i>			
		Driver		Salt	

JOB SERVICES & REMARKS

Remarks:

Rat Hole Flowseal

Mouse Hole Kol-Seal

Centralizers Mud CLR 48

Baskets CFL-117 or CD110 CAF 38

D/V or Port Collar Sand

8 5/8 on bottom Est Circulation Mix 150 SK Handling *168*

& Displace Mileage

FLOAT EQUIPMENT

Cement Circulation Guide Shoe

Centralizer

Baskets *8 5/8 Surge*

AFU Inserts

Float Shoe

Latch Down

Pumptrk Charge *Surface*

Mileage *9*

Tax

Discount

Total Charge

X Signature *Doug Budz*

QUALITY OILWELL CEMENTING, INC.

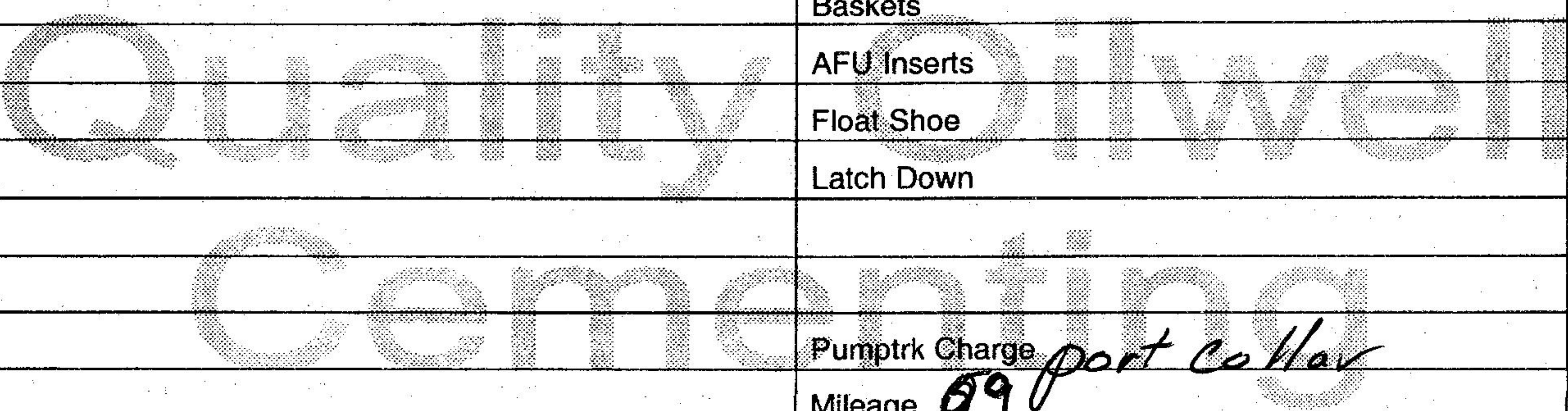
Federal Tax I.D.# 20-2886107

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

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

No. 7712

Date	1-10-14	Sec.		Twp.		Range		County	Ellis	State	KS	On Location		Finish	1:30 p.m.
Lease								Gottschalk		Well No.		1			
Contractor								Stewart		Owner					
Type Job								Port collar		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				7 7/8		T.D.				Charge To					
Csg.				5 1/2		Depth				Double D's					
Tbg. Size				2 3/8		Depth				Street					
Tool				Reinhardt's Chis		Depth		1620		City					
Cement Left in Csg.						Shoe Joint				State					
Meas Line								Displace		53C		Cement Amount Ordered			
												250 QMDC 1/4 # F10			
												Common			
												180			
Pumptrk								18 No.		Cement		Cady			
										Helper					
Bulktrk								No.		Driver		Clayton			
										Driver					
Bulktrk								13 No.		Driver					
										Driver					
JOB SERVICES & REMARKS															
Remarks:								Hulls							
Rat Hole								Salt							
Mouse Hole								Flowseal 62#							
KCC Ray Dinkel								Kol-Seal							
Centralizers								Mud CLR 48							
Baskets								CFL-117 or CD110 CAF 38							
D/V or Port Collar								Sand							
Phs 2700 Test to 1200#								Handling 250							
Open Tool & B+C Circulation								Mileage							
Mix 180SK + Cement Circulate								FLOAT EQUIPMENT							
Close Tool & Test to 1000#								Guide Shoe							
Run 5 joints & wash clean								Centralizer							
								Baskets							
								AFU Inserts							
								Float Shoe							
								Latch Down							
								Pumptrk Charge							
								Mileage 89 port collar							
								Tax							
								Discount							
								Total Charge							
X Signature															



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. 7672
12-20-13

Date	12-19-13	Sec.	10	Twp.	14	Range	19	County	Ellis	State	KS	On Location		Finish	2:00AM
Lease								Gottschalk				Well No. 1			
Contractor								Royal #1				Owner			
Type Job								long string				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								7 7/8				Charge To Double D's			
Csg.								5 1/2 14#				T.D. 3860			
Tbg. Size												Depth 3859			
Tool												Street			
Cement Left in Csg.												City			
Meas Line								Displace 93.13 bbl				State			
EQUIPMENT												Common 180			
Pumptrk 15								No. Cementer Helper Nick				Poz. Mix			
Bulktrk 9								No. Driver David				Gel.			
Bulktrk P4								No. Driver Travis				Calcium			
JOB SERVICES & REMARKS												Hulls			
Remarks:												Salt 16			
Rat Hole 30 sx												Flowseal			
Mouse Hole 15 sx												Kol-Seal 900#			
Centralizers 1, 3, 5, 7, 9, 11, 13, 51												Mud CLR 48 500 gal			
Baskets 4, 52												CFL-117 or CD110 CAF 38			
Port Collar Top of #52 at 1540												Sand			
Pipe on bottom brace circulation. Pumped 500 gal Mud CLR 48 with 10 bbl fw behind it. Plugged Rat hole with 30 sx and Mouse hole with 15 sx.												Handling 205			
Hooked to 5 1/2 Mixed 135 sx slot down washed pump and lines. Released plug and displaced with 93.13 bbl fw. Plug landed and held.												Mileage			
												FLOAT EQUIPMENT			
												Guide Shoe			
												Centralizer 8 turbos			
												Baskets 2			
												AFU Inserts			
												Float Shoe 1			
												Latch Down 1			
Lift Pressure at 800 psi												1 port collar			
Plug landed at 1500 psi												Pumptrk Charge prod long string			
												Mileage 9			
												Tax			
												Discount			
												Total Charge			
X Signature															



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Double D's LLC

10-14s-19w Ellis, KS

133 E 12th
Hays, KS 67601

Gottschalk #1

Job Ticket: 55439

DST#: 1

ATTN: Al Downing

Test Start: 2013.12.17 @ 06:14:40

GENERAL INFORMATION:

Formation: **Lans. A-D**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:50:55

Time Test Ended: 15:03:40

Test Type: Conventional Bottom Hole (Initial)

Tester: Brannan L

Unit No: 54

Interval: 3509.00 ft (KB) To 3585.00 ft (KB) (TVD)

Reference Elevations: 2209.00 ft (KB)

Total Depth: 3585.00 ft (KB) (TVD)

2203.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 6.00 ft

Serial #: 8789

Inside

Press@RunDepth: 377.25 psig @ 3517.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.12.17

End Date:

2013.12.17

Last Calib.:

2013.12.17

Start Time: 06:14:42

End Time:

15:03:40

Time On Btm:

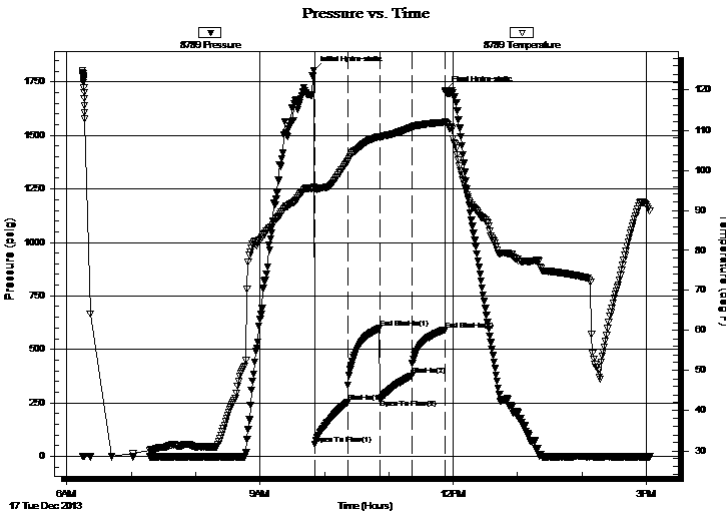
2013.12.17 @ 09:49:55

Time Off Btm:

2013.12.17 @ 11:52:25

TEST COMMENT: 30- IF- BOB 2mins
30- IS- Surface blow that died half way thru
30- FF- BOB 4mins
30- FS- Surface blow throughout

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1804.28	95.78	Initial Hydro-static
1	56.04	95.44	Open To Flow (1)
32	253.40	102.17	Shut-In(1)
62	598.44	108.42	End Shut-In(1)
62	267.38	108.35	Open To Flow (2)
92	377.25	110.68	Shut-In(2)
122	590.74	111.91	End Shut-In(2)
123	1708.81	112.14	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
350.00	GOWM, 15%G 20%O 25%W 40%M	4.78
445.00	MOW, 10%M 10%O 80%W	6.08
0.00	30' GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Double D's LLC

10-14s-19w Ellis, KS

133 E 12th
Hays, KS 67601

Gottschalk #1

Job Ticket: 55439

DST#: 1

ATTN: Al Downing

Test Start: 2013.12.17 @ 06:14:40

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:

80000 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.40 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
350.00	GOWM, 15%G 20%O 25%W 40%M	4.781
445.00	MOW, 10%M 10%O 80%W	6.079
0.00	30' GIP	0.000

Total Length: 795.00 ft Total Volume: 10.860 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

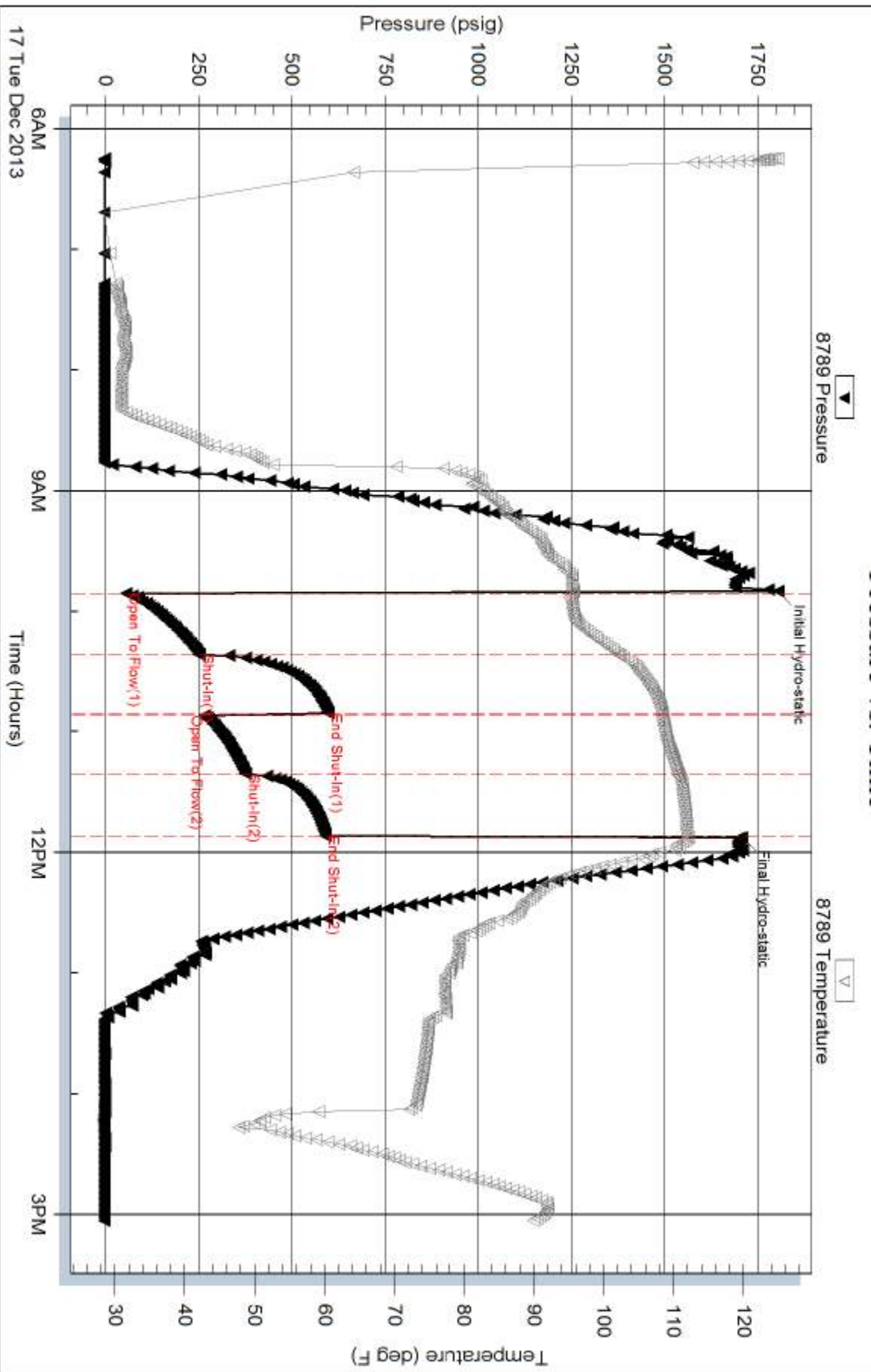
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Double D's LLC

10-14s-19w Ellis, KS

133 E 12th
Hays, KS 67601

Gottschalk #1

Job Ticket: 55440

DST#: 2

ATTN: Al Downing

Test Start: 2013.12.17 @ 19:15:52

GENERAL INFORMATION:

Formation: **Lansing E**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:21:07

Time Test Ended: 02:08:52

Test Type: Conventional Bottom Hole (Reset)

Tester: Brannan L

Unit No: 54

Interval: 3578.00 ft (KB) To 3597.00 ft (KB) (TVD)

Reference Elevations: 2209.00 ft (KB)

Total Depth: 3597.00 ft (KB) (TVD)

2203.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 6.00 ft

Serial #: 8789

Inside

Press @ Run Depth: 72.96 psig @ 3594.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.12.17

End Date:

2013.12.18

Last Calib.:

2013.12.18

Start Time: 19:15:54

End Time:

02:08:52

Time On Btm:

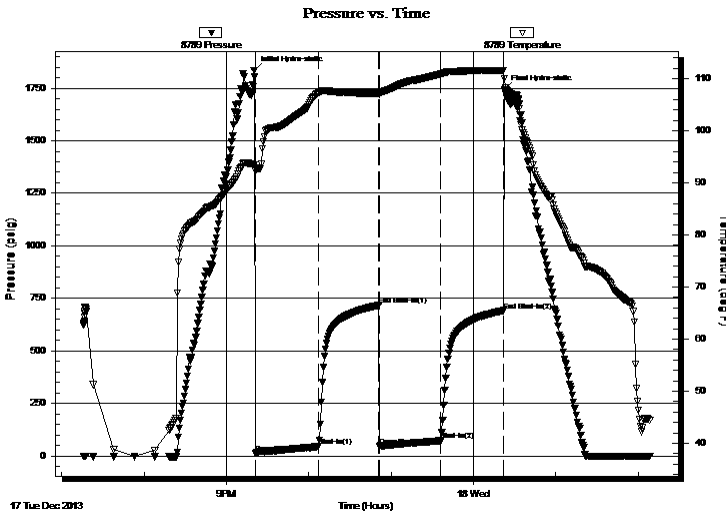
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Time Off Btm:

2013.12.18 @ 00:22:37

TEST COMMENT: 45- IF- BOB 38mins
45- IS- Surface blow
45- FF- Built to 7"
45- FSI- No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1834.70	93.46	Initial Hydro-static
1	12.70	92.16	Open To Flow (1)
47	45.49	107.29	Shut-In(1)
91	717.16	107.17	End Shut-In(1)
92	47.42	106.96	Open To Flow (2)
136	72.96	110.84	Shut-In(2)
182	692.42	111.55	End Shut-In(2)
183	1743.31	109.94	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
130.00	MW, 80%W	1.78

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Double D's LLC

10-14s-19w Ellis, KS

133 E 12th
Hays, KS 67601

Gottschalk #1

Job Ticket: 55440

DST#: 2

ATTN: Al Downing

Test Start: 2013.12.17 @ 19:15:52

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:

7500 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.40 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
130.00	MW, 80%W	1.776

Total Length: 130.00 ft Total Volume: 1.776 bbl

Num Fluid Samples: 0

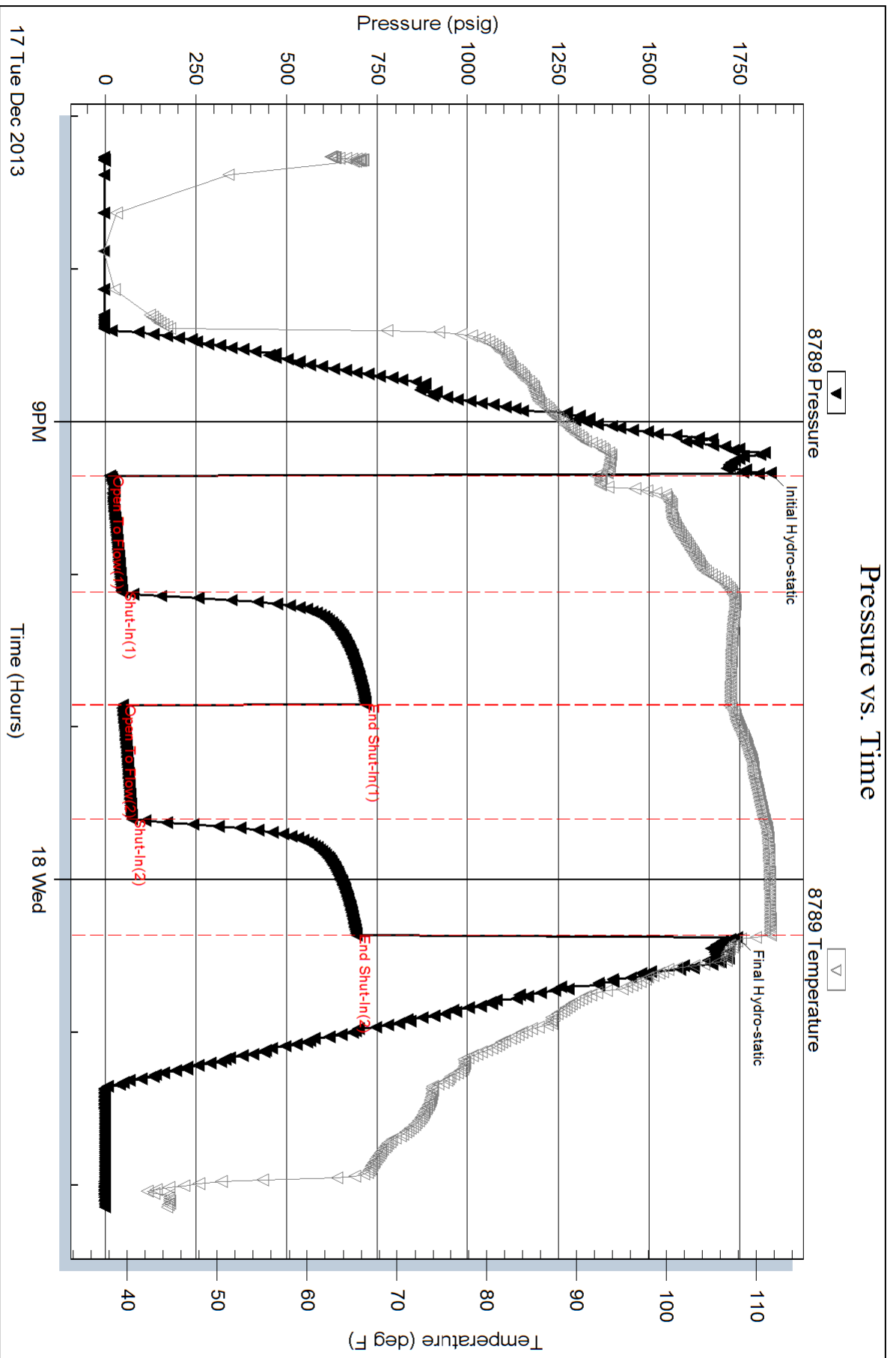
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **Double D's LLC**

133 E 12th
Hays, KS 67601

ATTN: Al Downing

Gottschalk #1

10-14s-19w Ellis,KS

Start Date: 2013.12.17 @ 06:14:40

End Date: 2013.12.17 @ 15:03:40

Job Ticket #: 55439 DST #: 1

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

Printed: 2013.12.20 @ 11:43:33

Double D's LLC
10-14s-19w Ellis,KS
Gottschalk #1
DST # 1
LKC A-D
2013.12.17



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Double D's LLC

10-14s-19w Ellis,KS

133 E 12th
Hays, KS 67601

Gottschalk #1

Job Ticket: 55439

DST#: 1

ATTN: Al Downing

Test Start: 2013.12.17 @ 06:14:40

GENERAL INFORMATION:

Formation: **LKC A-D**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:50:55

Time Test Ended: 15:03:40

Test Type: Conventional Bottom Hole (Initial)

Tester: Brannan L

Unit No: 54

Interval: 3509.00 ft (KB) To 3585.00 ft (KB) (TVD)

Reference Elevations: 2209.00 ft (KB)

Total Depth: 3585.00 ft (KB) (TVD)

2203.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 6.00 ft

Serial #: 8789

Inside

Press@RunDepth: 377.25 psig @ 3517.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.12.17

End Date:

2013.12.17

Last Calib.:

2013.12.17

Start Time: 06:14:42

End Time:

15:03:40

Time On Btm:

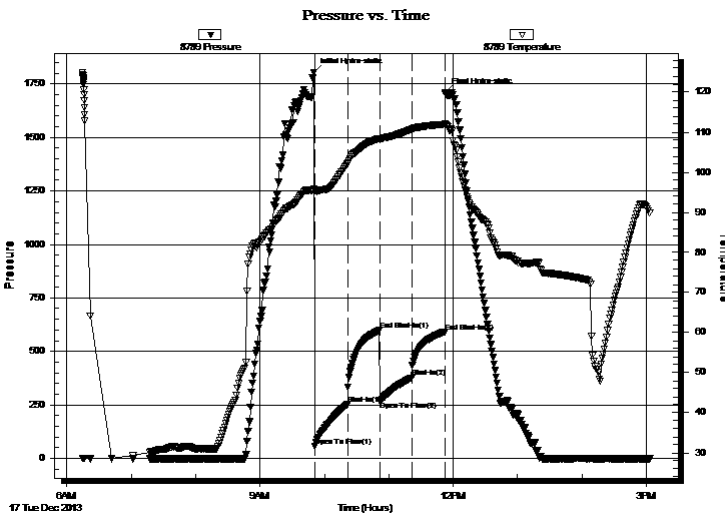
2013.12.17 @ 09:49:55

Time Off Btm:

2013.12.17 @ 11:52:25

TEST COMMENT: 30- IF- BOB 2 mins
30- IS- Surface blow that died half way through
30- FF- BOB 4 mins
30- FS- Surface blow throughout

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1804.28	95.78	Initial Hydro-static
1	56.04	95.44	Open To Flow (1)
32	253.40	102.17	Shut-In(1)
62	598.44	108.42	End Shut-In(1)
62	267.38	108.35	Open To Flow (2)
92	377.25	110.68	Shut-In(2)
122	590.74	111.91	End Shut-In(2)
123	1708.81	112.14	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
350.00	GOWM, 15%G 20%O 25%W 40%M	4.78
445.00	MOW, 10%M 10%O 80%W	6.08
0.00	30' GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Double D's LLC

133 E 12th
Hays, KS 67601

ATTN: Al Downing

10-14s-19w Ellis, KS

Gottschalk #1

Job Ticket: 55439

DST#: 1

Test Start: 2013.12.17 @ 06:14:40

GENERAL INFORMATION:

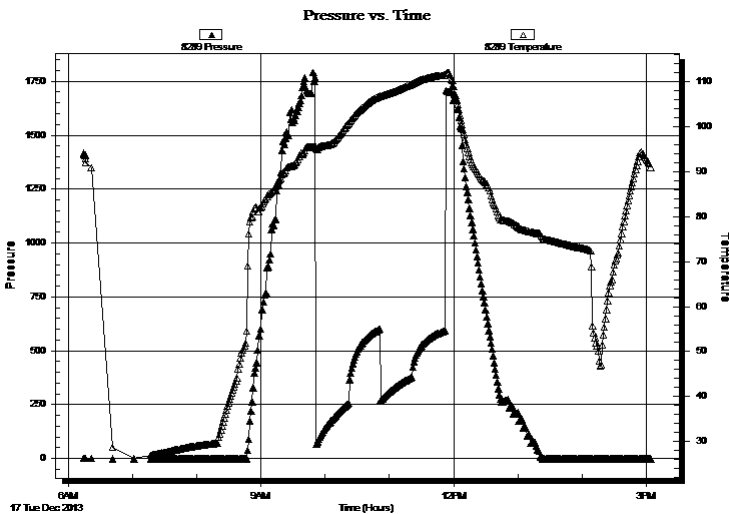
Formation: **LKC A-D**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 09:50:55
 Tester: Brannan L
 Time Test Ended: 15:03:40
 Unit No: 54
 Interval: **3509.00 ft (KB) To 3585.00 ft (KB) (TVD)**
 Reference Elevations: 2209.00 ft (KB)
 Total Depth: 3585.00 ft (KB) (TVD)
 2203.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Fair
 KB to GR/CF: 6.00 ft

Serial #: 8289

Outside

Press@RunDepth: psig @ 3517.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.12.17 End Date: 2013.12.17 Last Calib.: 2013.12.17
 Start Time: 06:14:33 End Time: 15:04:01 Time On Btm:
 Time Off Btm:

TEST COMMENT: 30- IF- BOB 2 mins
 30- IS- Surface blow that died half way through
 30- FF- BOB 4 mins
 30- FS- Surface blow throughout



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
350.00	GOWM, 15%G 20%O 25%W 40%M	4.78
445.00	MOW, 10%M 10%O 80%W	6.08
0.00	30' GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Double D's LLC

10-14s-19w Ellis,KS

133 E 12th
Hays, KS 67601

Gottschalk #1

Job Ticket: 55439

DST#: 1

ATTN: Al Downing

Test Start: 2013.12.17 @ 06:14:40

Tool Information

Drill Pipe:	Length: 3522.00 ft	Diameter: 3.75 inches	Volume: 48.11 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 58000.00 lb
			<u>Total Volume: 48.11 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial 53000.00 lb
Depth to Top Packer:	3509.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	76.00 ft			
Tool Length:	96.00 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			3490.00	
Shut In Tool	5.00			3495.00	
Hydraulic tool	5.00			3500.00	
Packer	5.00			3505.00	20.00 Bottom Of Top Packer
Packer	4.00			3509.00	
Stubb	1.00			3510.00	
Perforations	7.00			3517.00	
Recorder	0.00	8789	Inside	3517.00	
Recorder	0.00	8289	Outside	3517.00	
Blank Spacing	65.00			3582.00	
Bullnose	3.00			3585.00	76.00 Bottom Packers & Anchor

Total Tool Length: 96.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Double D's LLC

10-14s-19w Ellis,KS

133 E 12th
Hays, KS 67601

Gottschalk #1

Job Ticket: 55439

DST#: 1

ATTN: Al Downing

Test Start: 2013.12.17 @ 06:14:40

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:

80000 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
350.00	GOWM, 15%G 20%O 25%W 40%M	4.781
445.00	MOW, 10%M 10%O 80%W	6.079
0.00	30' GIP	0.000

Total Length: 795.00 ft Total Volume: 10.860 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

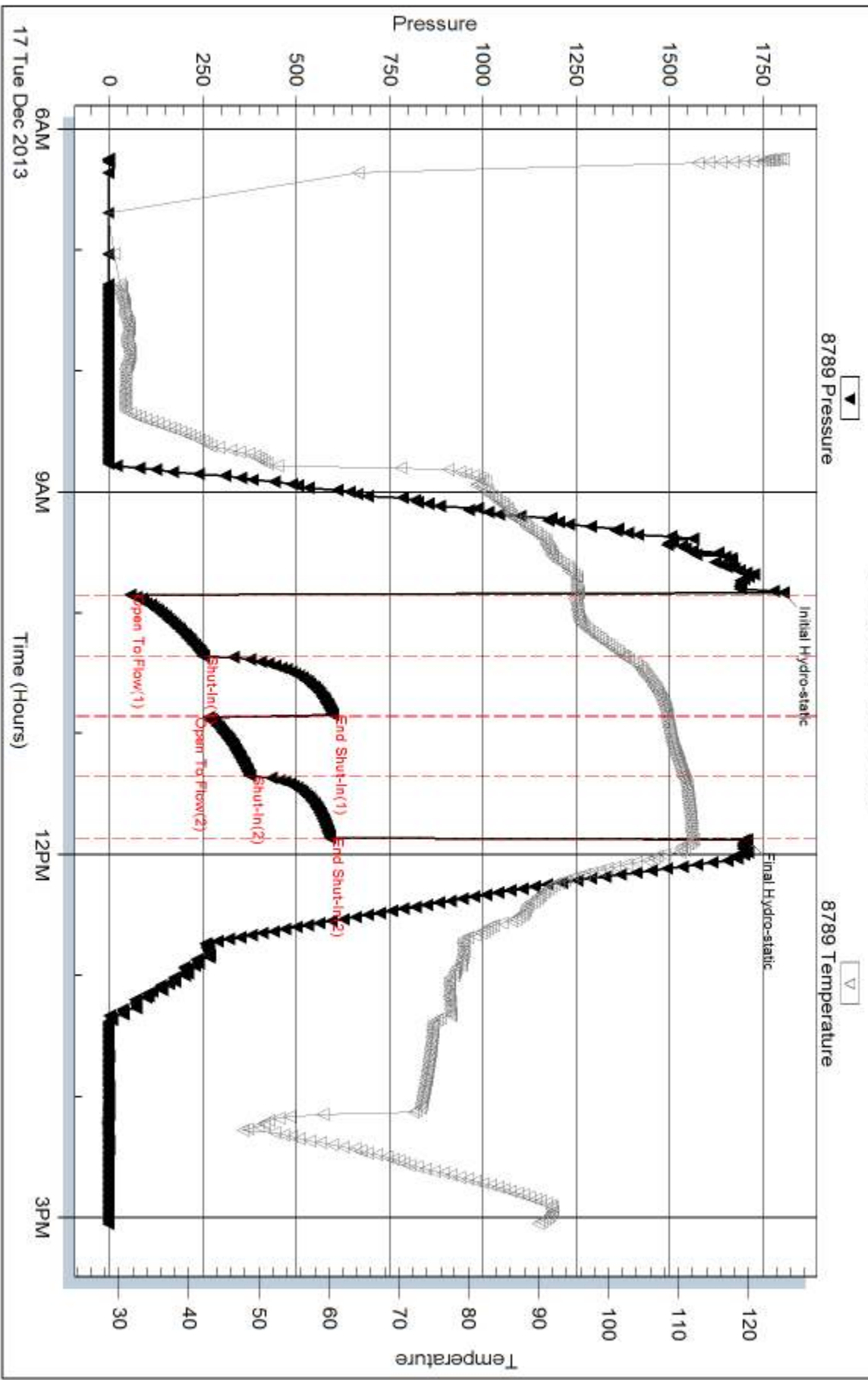
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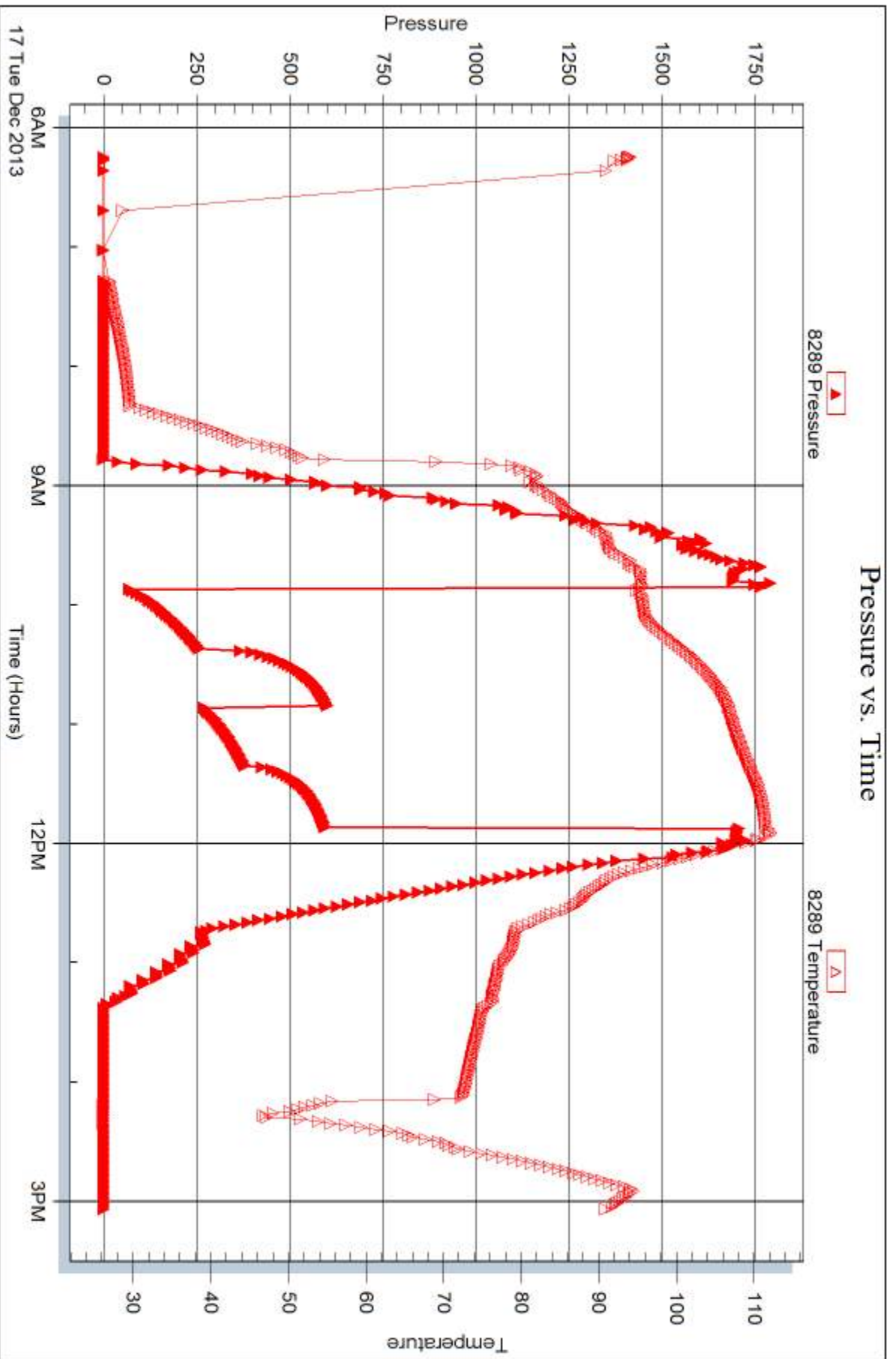
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time







DRILL STEM TEST REPORT

Prepared For: **Double D's LLC**

133 E 12th
Hays, KS 67601

ATTN: Al Downing

Gottschalk #1

10-14s-19w Ellis,KS

Start Date: 2013.12.17 @ 19:15:52

End Date: 2013.12.18 @ 02:08:52

Job Ticket #: 55440 DST #: 2

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

Printed: 2013.12.20 @ 11:42:53



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Double D's LLC

10-14s-19w Ellis,KS

133 E 12th
Hays, KS 67601

Gottschalk #1

Job Ticket: 55440

DST#: 2

ATTN: Al Downing

Test Start: 2013.12.17 @ 19:15:52

GENERAL INFORMATION:

Formation: **LKC E**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:21:07

Time Test Ended: 02:08:52

Test Type: Conventional Bottom Hole (Reset)

Tester: Brannan L

Unit No: 54

Interval: 3578.00 ft (KB) To 3597.00 ft (KB) (TVD)

Reference Elevations: 2209.00 ft (KB)

Total Depth: 3597.00 ft (KB) (TVD)

2203.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 6.00 ft

Serial #: 8789

Inside

Press@RunDepth: 72.96 psig @ 3594.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.12.17

End Date:

2013.12.18

Last Calib.: 2013.12.18

Start Time: 19:15:54

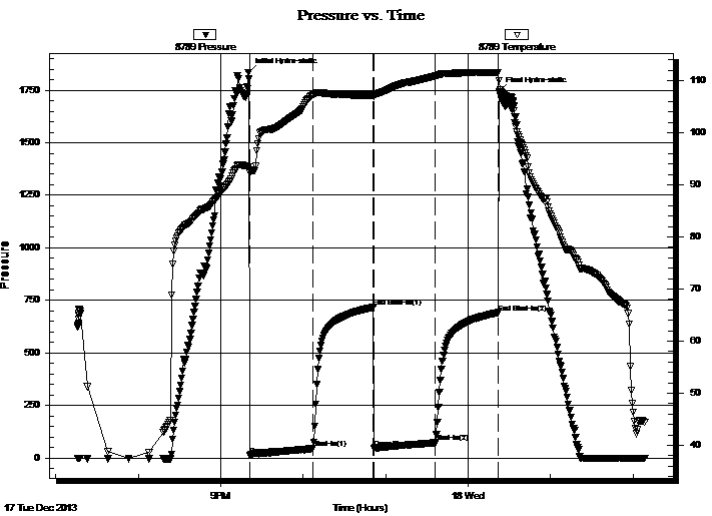
End Time:

02:08:52

Time On Btm: 2013.12.17 @ 21:20:07

Time Off Btm: 2013.12.18 @ 00:22:37

TEST COMMENT: 45- IF- BOB 38 mins
45- IS- Surface blow
45- FF- Built to 7"
45- FS- No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1834.70	93.46	Initial Hydro-static
1	12.70	92.16	Open To Flow (1)
47	45.49	107.29	Shut-In(1)
91	717.16	107.17	End Shut-In(1)
92	47.42	106.96	Open To Flow (2)
136	72.96	110.84	Shut-In(2)
182	692.42	111.55	End Shut-In(2)
183	1743.31	109.94	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
130.00	MW, 80%W	1.78

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Double D's LLC

10-14s-19w Ellis, KS

133 E 12th
Hays, KS 67601

Gottschalk #1

Job Ticket: 55440

DST#: 2

ATTN: Al Downing

Test Start: 2013.12.17 @ 19:15:52

GENERAL INFORMATION:

Formation: **LKC E**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:21:07

Time Test Ended: 02:08:52

Test Type: Conventional Bottom Hole (Reset)

Tester: Brannan L

Unit No: 54

Interval: 3578.00 ft (KB) To 3597.00 ft (KB) (TVD)

Reference Elevations: 2209.00 ft (KB)

Total Depth: 3597.00 ft (KB) (TVD)

2203.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 6.00 ft

Serial #: 8289 Outside

Press@RunDepth: psig @ 3594.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.12.17

End Date: 2013.12.18

Last Calib.: 2013.12.18

Start Time: 19:15:31

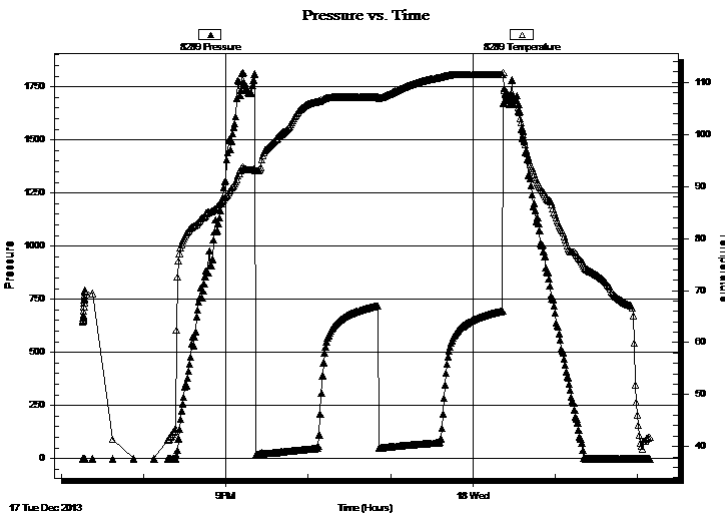
End Time: 02:08:59

Time On Btm:

Time Off Btm:

TEST COMMENT: 45- IF- BOB 38 mins
45- IS- Surface blow
45- FF- Built to 7"
45- FSI- No blow

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
130.00	MW, 80%W	1.78

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Double D's LLC

10-14s-19w Ellis,KS

133 E 12th
Hays, KS 67601

Gottschalk #1

Job Ticket: 55440

DST#: 2

ATTN: Al Downing

Test Start: 2013.12.17 @ 19:15:52

Tool Information

Drill Pipe:	Length: 3585.00 ft	Diameter: 3.75 inches	Volume: 48.97 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	55000.00 lb
			<u>Total Volume: 48.97 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial	51000.00 lb
Depth to Top Packer:	3578.00 ft			Final	51000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	19.00 ft				
Tool Length:	39.00 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			3559.00	
Shut In Tool	5.00			3564.00	
Hydraulic tool	5.00			3569.00	
Packer	5.00			3574.00	20.00 Bottom Of Top Packer
Packer	4.00			3578.00	
Stubb	1.00			3579.00	
Perforations	15.00			3594.00	
Recorder	0.00	8789	Inside	3594.00	
Recorder	0.00	8289	Outside	3594.00	
Bullnose	3.00			3597.00	19.00 Bottom Packers & Anchor
Total Tool Length:	39.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Double D's LLC

10-14s-19w Ellis,KS

133 E 12th
Hays, KS 67601

Gottschalk #1

Job Ticket: 55440

DST#: 2

ATTN: Al Downing

Test Start: 2013.12.17 @ 19:15:52

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:

7500 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
130.00	MW, 80%W	1.776

Total Length: 130.00 ft

Total Volume: 1.776 bbl

Num Fluid Samples: 0

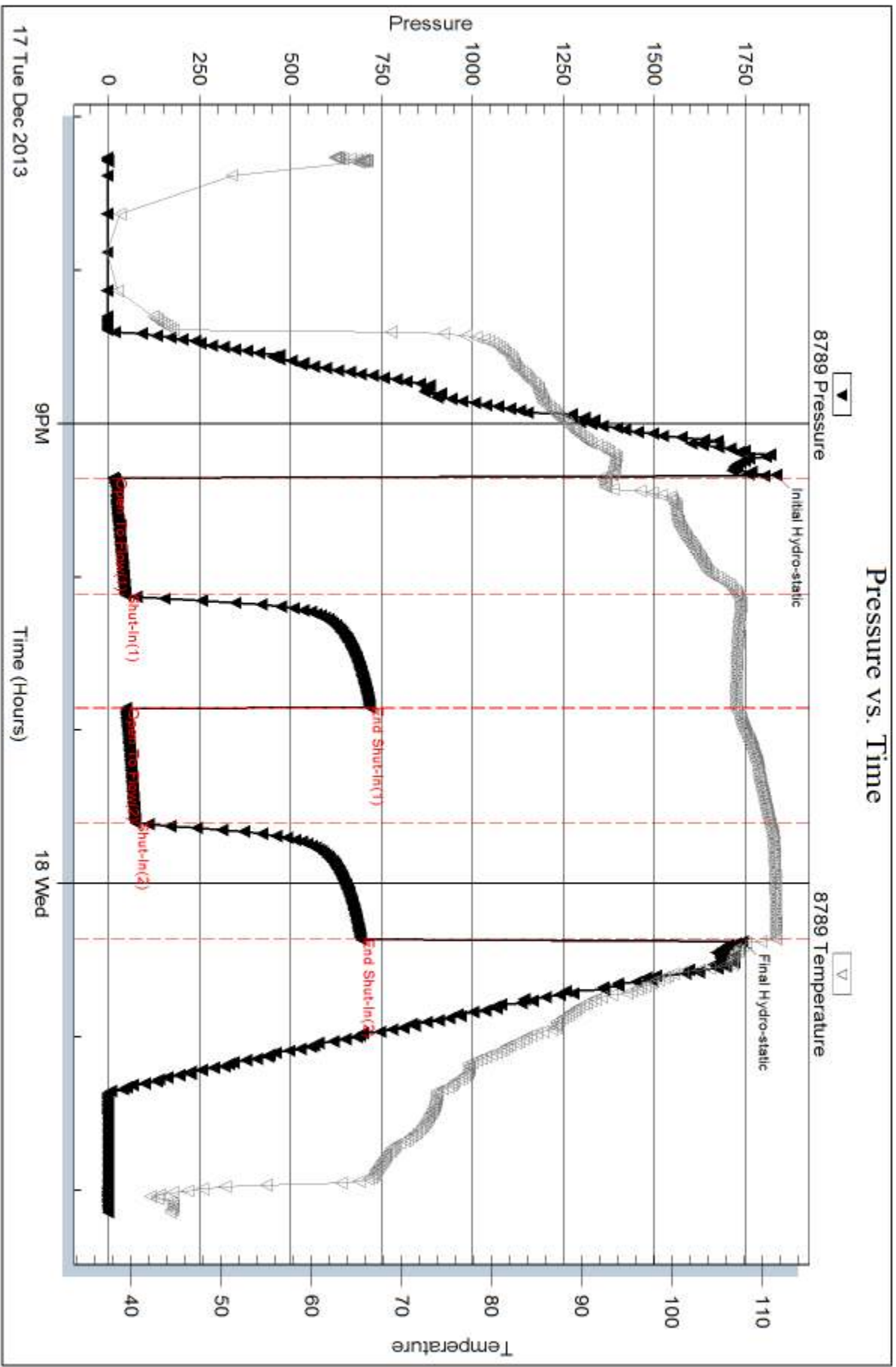
Num Gas Bombs: 0

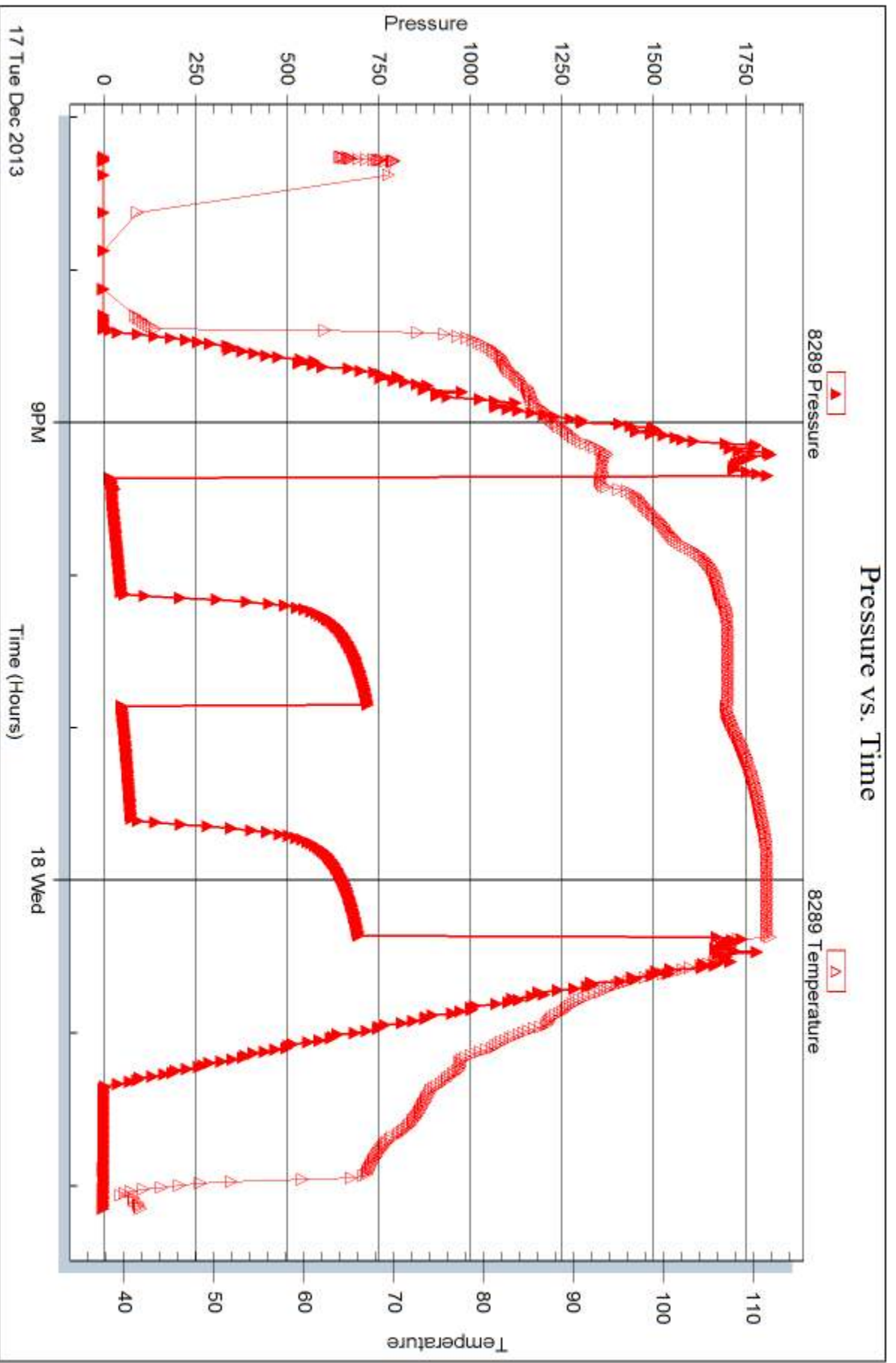
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Double D's LLC**

133 E 12th
Hays, KS 67601

ATTN: Al Downing

Gottschalk #1

10-14s-19w Ellis,KS

Start Date: 2013.12.18 @ 14:13:08

End Date: 2013.12.18 @ 18:36:38

Job Ticket #: 55441 DST #: 3

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

Printed: 2013.12.20 @ 11:41:26



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Double D's LLC

10-14s-19w Ellis,KS

133 E 12th
Hays, KS 67601

Gottschalk #1

Job Ticket: 55441

DST#: 3

ATTN: Al Downing

Test Start: 2013.12.18 @ 14:13:08

GENERAL INFORMATION:

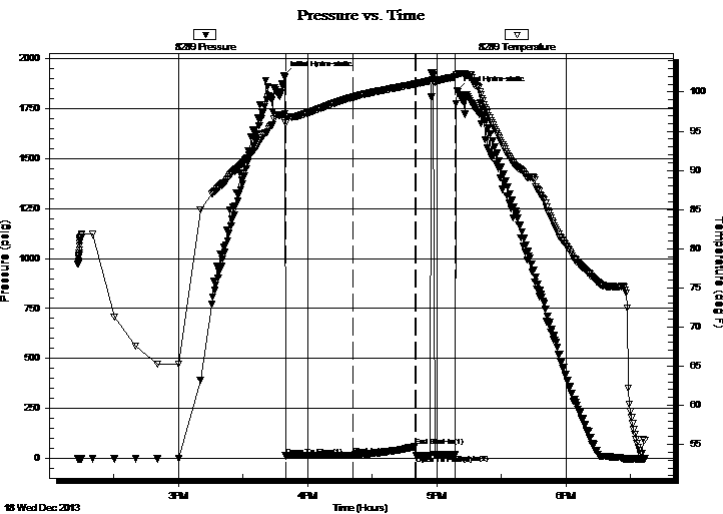
Formation: **KC 'I'**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 15:49:38
 Time Test Ended: 18:36:38
 Interval: **3691.00 ft (KB) To 3711.00 ft (KB) (TVD)**
 Total Depth: 3711.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Brannan L
 Unit No: 54
 Reference Elevations: 2209.00 ft (KB)
 2203.00 ft (CF)
 KB to GR/CF: 6.00 ft

Serial #: 8289

Outside

Press@RunDepth: 16.86 psig @ 3708.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.12.18 End Date: 2013.12.18 Last Calib.: 2013.12.18
 Start Time: 14:13:10 End Time: 18:36:38 Time On Btm: 2013.12.18 @ 15:48:53
 Time Off Btm: 2013.12.18 @ 17:09:23

TEST COMMENT: 30- IF- Built very slow ly to 1"
 30- IS- No blow
 20- FF- Dead blow Flushed tool Surface blow Pulled tool



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1915.55	97.09	Initial Hydro-static
1	13.52	96.01	Open To Flow (1)
32	16.86	99.33	Shut-In(1)
61	60.08	101.03	End Shut-In(1)
62	17.44	101.04	Open To Flow (2)
80	18.93	101.94	Shut-In(2)
81	1841.43	102.23	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	M	0.03

* Recovery from multiple tests

Gas Rates

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



DRILL STEM TEST REPORT

Double D's LLC

10-14s-19w Ellis, KS

133 E 12th
Hays, KS 67601

Gottschalk #1

Job Ticket: 55441

DST#: 3

ATTN: Al Downing

Test Start: 2013.12.18 @ 14:13:08

GENERAL INFORMATION:

Formation: **KC 'I'**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:49:38

Time Test Ended: 18:36:38

Interval: **3691.00 ft (KB) To 3711.00 ft (KB) (TVD)**

Total Depth: 3711.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Reset)

Tester: Brannan L

Unit No: 54

Reference Elevations: 2209.00 ft (KB)

2203.00 ft (CF)

KB to GR/CF: 6.00 ft

Serial #: 8789

Inside

Press@RunDepth: psig @ 3708.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.12.18 End Date: 2013.12.18 Last Calib.: 2013.12.18

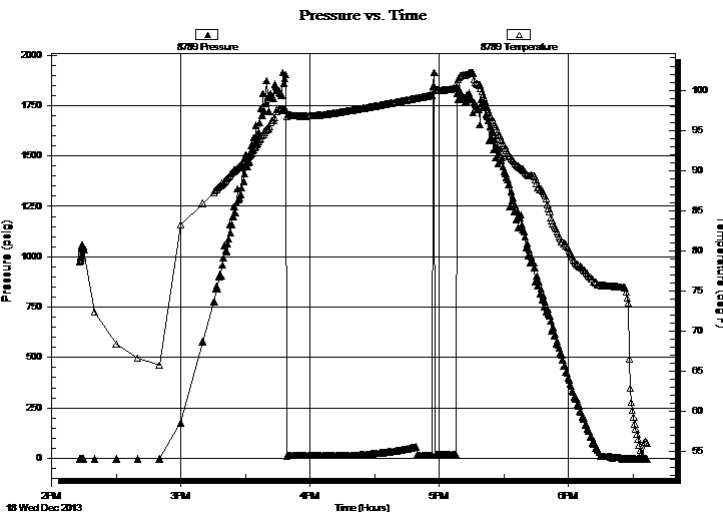
Start Time: 14:13:01 End Time: 18:36:14 Time On Btm:

Time Off Btm:

TEST COMMENT: 30- IF- Built very slow ly to 1"

30- IS- No blow

20- FF- Dead blow Flushed tool Surface blow Pulled tool



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
2.00	M	0.03

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Double D's LLC

10-14s-19w Ellis,KS

133 E 12th
Hays, KS 67601

Gottschalk #1

Job Ticket: 55441

DST#: 3

ATTN: Al Downing

Test Start: 2013.12.18 @ 14:13:08

Tool Information

Drill Pipe:	Length: 3680.00 ft	Diameter: 3.75 inches	Volume: 50.27 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: 50.27 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 53000.00 lb
Depth to Top Packer:	3691.00 ft			Final 53000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	20.00 ft			
Tool Length:	40.00 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			3672.00	
Shut In Tool	5.00			3677.00	
Hydraulic tool	5.00			3682.00	
Packer	5.00			3687.00	20.00 Bottom Of Top Packer
Packer	4.00			3691.00	
Stubb	1.00			3692.00	
Perforations	16.00			3708.00	
Recorder	0.00	8789	Inside	3708.00	
Recorder	0.00	8289	Outside	3708.00	
Bullnose	3.00			3711.00	20.00 Bottom Packers & Anchor
Total Tool Length:	40.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Double D's LLC

10-14s-19w Ellis,KS

133 E 12th
Hays, KS 67601

Gottschalk #1

Job Ticket: 55441

DST#: 3

ATTN: Al Downing

Test Start: 2013.12.18 @ 14:13:08

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: 6.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	M	0.027

Total Length: 2.00 ft Total Volume: 0.027 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

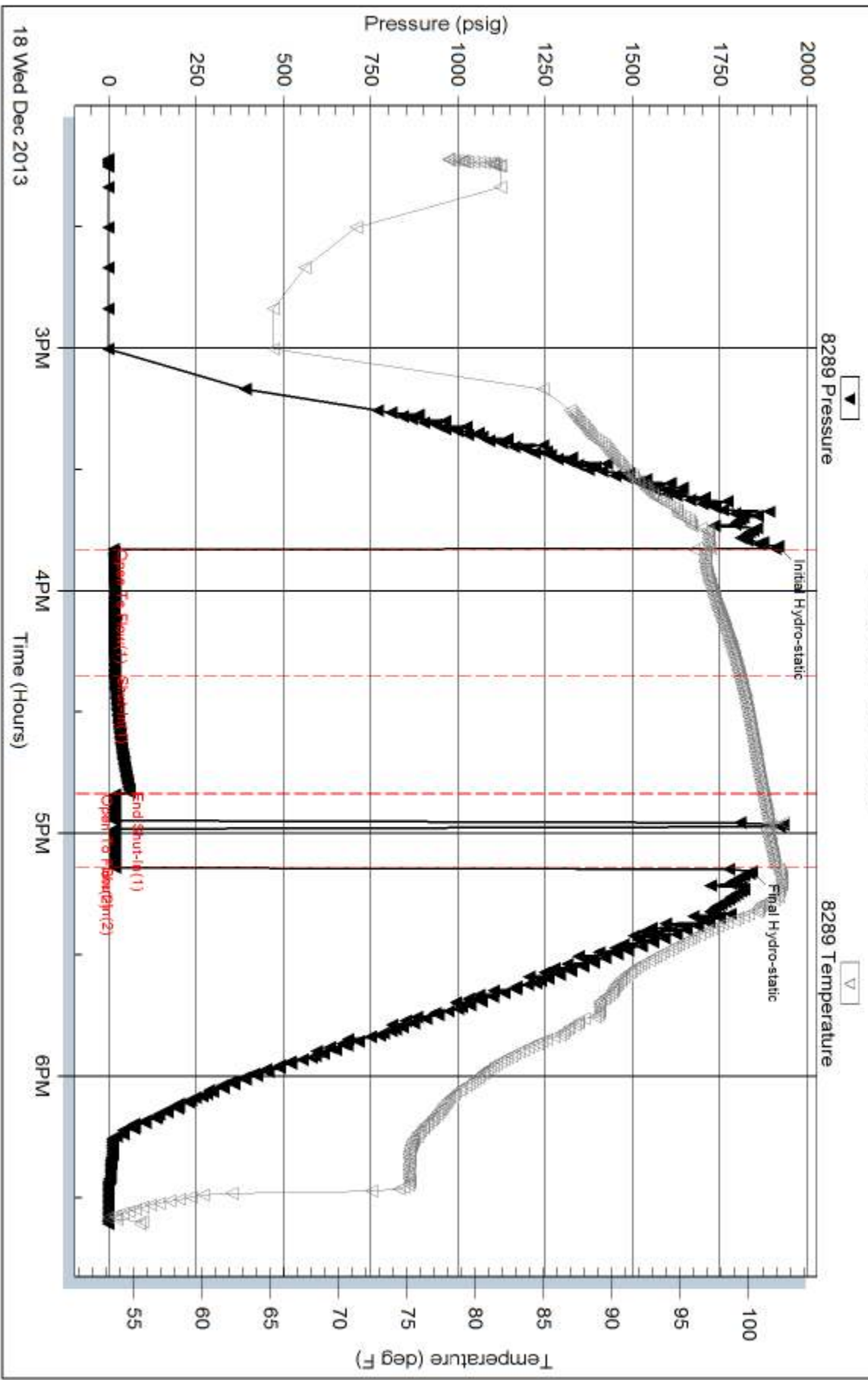
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



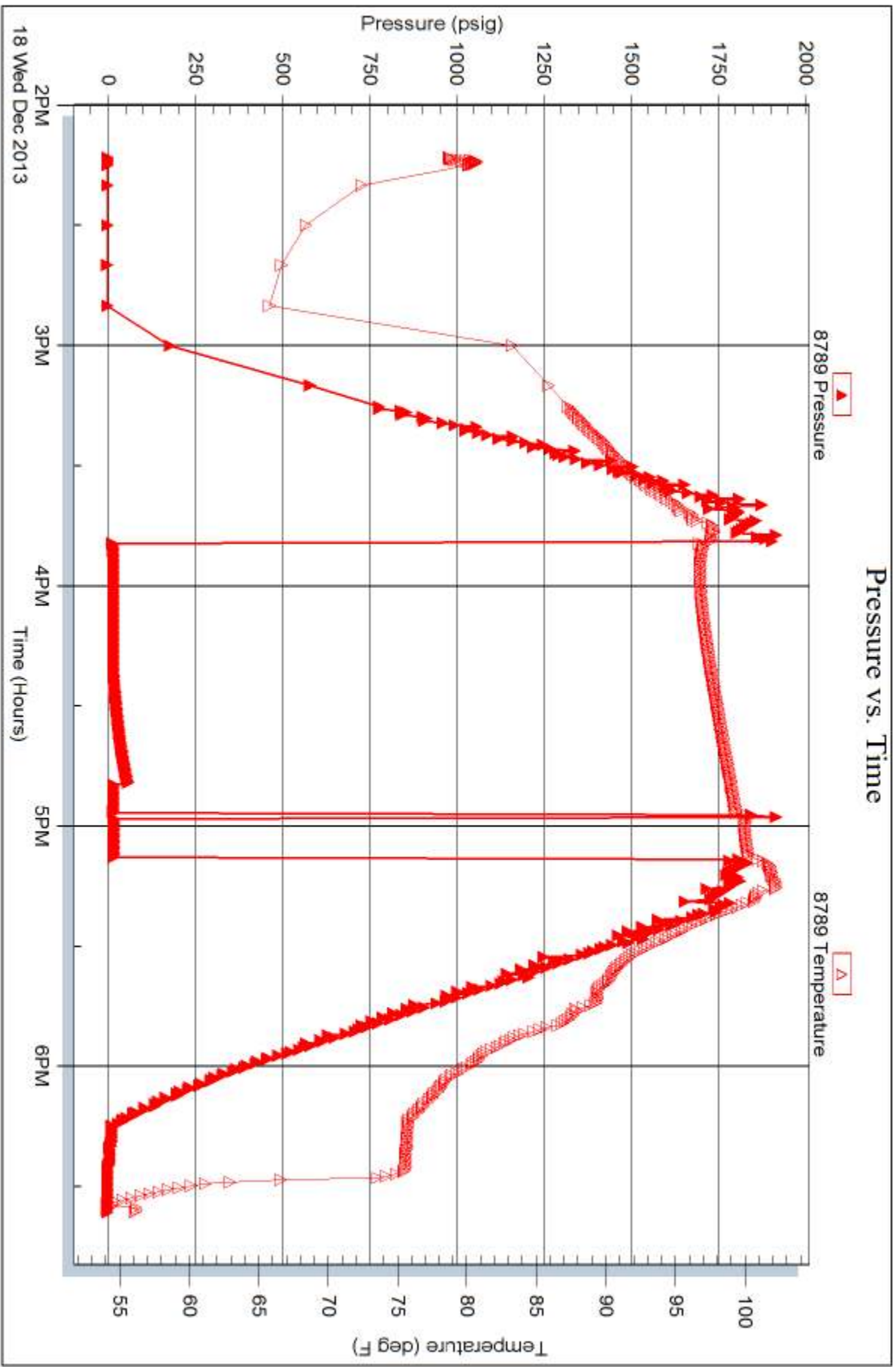
Serial #: 8789

Inside

Double Ds LLC

Gotschalk #1

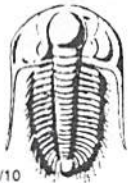
DST Test Number: 3



Tribble Testing, Inc

Ref. No: 55441

Printed: 2013.12.20 @ 11:41:28



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 55439

Well Name & No. Gottschalk #1 Test No. 1 Date 12/17/13
 Company Double D's LLC Elevation 2210 KB 2203 GL
 Address 133 E 12th Hays, KS 67601
 Co. Rep / Geo. Al Downing Rig Royal #1
 Location: Sec. 10 Twp. 14s Rge. 19w Co. Ellis State KS

Interval Tested 3509-3585 Zone Tested Lansing A-D
 Anchor Length 76' Drill Pipe Run 3522 Mud Wt. 9.0
 Top Packer Depth 3504 Drill Collars Run _____ Vis 56
 Bottom Packer Depth 3509 Wt. Pipe Run _____ WL 5.4
 Total Depth 3585 Chlorides 1500 ppm System LCM 2#

Blow Description IF- BOB 2 mins
ISI- Surface blow that died half way thru
FF- BOB 4 mins
FSI- Surface blow throughout

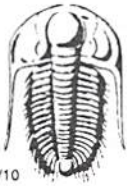
Rec	Feet of	%gas	%oil	%water	%mud
<u>350</u>	<u>LOWM</u>	<u>15%</u>	<u>20%</u>	<u>25%</u>	<u>40%</u>
<u>445</u>	<u>MOW</u>	<u>_____</u>	<u>10%</u>	<u>80%</u>	<u>10%</u>
<u>_____</u>	<u>30' GIP</u>	<u>_____</u>	<u>_____</u>	<u>_____</u>	<u>_____</u>
<u>_____</u>	<u>_____</u>	<u>_____</u>	<u>_____</u>	<u>_____</u>	<u>_____</u>
<u>_____</u>	<u>_____</u>	<u>_____</u>	<u>_____</u>	<u>_____</u>	<u>_____</u>

Rec Total 795 BHT 112° Gravity _____ API RW .09 @ 62° F Chlorides 80000 ppm
 (A) Initial Hydrostatic 1804 Test 1150 T-On Location 0545
 (B) First Initial Flow 56 Jars _____ T-Started 0545 0614
 (C) First Final Flow 253 Safety Joint _____ T-Open 0950
 (D) Initial Shut-In 598 Circ Sub _____ T-Pulled 1150
 (E) Second Initial Flow 267 Hourly Standby _____ T-Out 1503
 (F) Second Final Flow 377 Mileage 26 RT 40.30 Comments _____
 (G) Final Shut-In 391 Sampler _____
 (H) Final Hydrostatic 1709 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1190.30
 Accessibility _____ MP/DST Disc't _____

Initial Open 30
 Initial Shut-In 30
 Final Flow 30
 Final Shut-In 30
 Sub Total 1190.30

Approved By _____ Our Representative Brennan L

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



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 55440

Well Name & No. Gottschalk #1 Test No. 2 Date 12/17/13
 Company Powder D's LLC Elevation 2209 KB 2203 GL
 Address 133 E. 12th Hays, KS 67601
 Co. Rep / Geo. Al Downing Rig Royal #1
 Location: Sec. 10 Twp. 14S Rge. 19W Co. Ellis State KS

Interval Tested 3578-3597 Zone Tested Lansing E
 Anchor Length 19' Drill Pipe Run 3585 Mud Wt. 9.0
 Top Packer Depth 3573 Drill Collars Run --- Vis 56
 Bottom Packer Depth 3578 Wt. Pipe Run --- WL 5.4
 Total Depth 3597 Chlorides 1,500 ppm System LCM 2#
 Blow Description IF - BDB 38 mins
ISI - Surface blow
FF - Built slowly to 2"
FSI - No blow

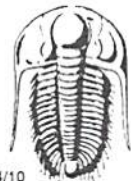
Rec	Feet of	%gas	%oil	%water	%mud
<u>130</u>	<u>MW</u>			<u>80</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 130 BHT 112° Gravity --- API RW .16 @ 38 °F Chlorides 1,500 ppm

(A) Initial Hydrostatic 1835 Test 1150 T-On Location 1910
 (B) First Initial Flow 13 Jars --- T-Started 1915
 (C) First Final Flow 45 Safety Joint --- T-Open 2120
 (D) Initial Shut-In 717 Circ Sub --- T-Pulled 0020
 (E) Second Initial Flow 47 Hourly Standby --- T-Out 0208
 (F) Second Final Flow 73 Mileage 26 RT 40.30 Comments ---
 (G) Final Shut-In 692 Sampler ---
 (H) Final Hydrostatic 1743 Straddle --- Ruined Shale Packer ---
 Shale Packer --- Ruined Packer ---
 Extra Packer --- Extra Copies ---
 Initial Open 45 Extra Recorder --- Sub Total 0
 Initial Shut-In 45 Day Standby --- Total 1190.30
 Final Flow 45 Accessibility --- MP/DST Disc't ---
 Final Shut-In 45 Sub Total 1190.30

Approved By _____ Our Representative Branner L

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



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **55441**

Well Name & No. Gottschalk #1 Test No. 3 Date 12/18/13
 Company Double D's LLC Elevation 2209 KB 2203 GL
 Address 133 E 12th Hays, KS 67601
 Co. Rep / Geo. Al Downing Rig Royal #1
 Location: Sec. 10 Twp. 14s Rge. 19w Co. Ellis State KS

Interval Tested 3691-3711 Zone Tested KC "I"
 Anchor Length 20' Drill Pipe Run 3680 Mud Wt. 9.0
 Top Packer Depth 3686 Drill Collars Run — Vis 59
 Bottom Packer Depth 3691 Wt. Pipe Run — WL 6.4
 Total Depth 3711 Chlorides 1,500 ppm System LCM 1#

Blow Description IF - Built very slowly to 1"
ISI - No blow
FF - Dead flow flushed tool surface blow pulled tool
FSI -

Rec	Feet of	%gas	%oil	%water	%mud
<u>2</u>	<u>M</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 2 BHT _____ Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1916 Test 1150 T-On Location 1410
 (B) First Initial Flow 14 Jars _____ T-Started 1413
 (C) First Final Flow 17 Safety Joint _____ T-Open 1550
 (D) Initial Shut-In 60 Circ Sub _____ T-Pulled 1710
 (E) Second Initial Flow 17 Hourly Standby _____ T-Out 1837
 (F) Second Final Flow 19 Mileage 26 RT 80.60 Comments Loaded tools
 (G) Final Shut-In _____ Sampler _____ 12/19 @ 1645
 (H) Final Hydrostatic 1841 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____

Initial Open 30 Extra Packer _____ Extra Copies _____
 Initial Shut-In 30 Extra Recorder _____ Sub Total 0
 Final Flow 20 Day Standby _____ Total 1230.60
 Final Shut-In _____ Accessibility _____ MP/DST Disc't _____
 Sub Total 1230.60

Approved By _____ Our Representative Brannan L

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