Confidentiality Requested:
☐ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1153744

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 # 31725
Name: Shelby Resources LLC
Address 1: 2717 Canal
Address 2: Suite C
City: HAYS State: KS Zip: 67601 + ____
Contact Person: Chris Gottschalk
Phone: (785) 623-1524
CONTRACTOR: License # 5142
Name: Sterling Drilling Company
Wellsite Geologist: Keith Reavis
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 #: _____

05/15/2013	05/21/2013	06/07/2013
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-145-21716-00-00
Spot Description: _____
W2 _ NW _ NW _ NE Sec. 3 Twp. 22 S. R. 16 ☐ East ☑ West
330 Feet from ☑ North / ☐ South Line of Section
2848 Feet from ☐ East / ☑ West Line of Section
Footages Calculated from Nearest Outside Section Corner:
☐ NE ☑ NW ☐ SE ☐ SW
GPS Location: Lat: _____ *(e.g. xx.xxxxx)* , Long: _____ *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Pawnee
Lease Name: WFYOG Well #: 2-3
Field Name: _____
Producing Formation: Conglomerate
Elevation: Ground: 1986 Kelly Bushing: 1999
Total Vertical Depth: 3950 Plug Back Total Depth: _____
Amount of Surface Pipe Set and Cemented at: 1001 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: 60000 ppm Fluid volume: 1200 bbls
Dewatering method used: Haul Off Pit

Location of fluid disposal if hauled offsite:

Operator Name: Shelby Resources/Captiva II
Lease Name: Buster License #: 31725
Quarter SW Sec. 3 Twp. 22 S. R. 16 ☐ East ☑ West
County: Pawnee Permit #: 15-145-21716-00-00

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: 07/31/2013
☑ **Confidential Release Date:** 07/31/2015
☑ **Wireline Log Received**
☑ **Geologist Report Received**
☐ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** NAOMI JAMES **Date:** 08/01/2013

1153744

Operator Name: Shelby Resources LLC Lease Name: WFYOG Well #: 2-3

Sec. 3 Twp. 22 S. R. 16 ☐ East ☑ West County: Pawnee

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 ☑ Yes ☐ No
(Attach Additional Sheets)

Samples Sent to Geological Survey ☑ Yes ☐ No

Cores Taken ☐ Yes ☑ No

Electric Log Run ☑ Yes ☐ No

List All E. Logs Run:

Attached

☑ Log Formation (Top), Depth and Datum ☐ Sample

Name	Top	Datum
Heebner	3395	-1396
Lansing	3514	-1515
BKC	3750	-1751
Conglomerate	3799	-1800
Simpson	3817	-1818
Arbuckle	3866	-1867
TD	3950	-1951

CASING RECORD ☑ New ☐ 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
Surface	12.25	8.625	23	1001	60/40 Poz	400	2% gel/ 3% cc
Production	7.875	5.5	14	3930	AA-2	100	2% gel/ 3% cc

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
☐ Perforate ☐ Protect Casing ☐ Plug Back TD ☐ 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 *(Amount and Kind of Material Used)*	Depth
4	3824-30'		

TUBING RECORD: Size: 2.375 Set At: 3883 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
	68				0			

DISPOSITION OF GAS: ☐ Vented ☐ Sold ☐ Used on Lease
(If vented, Submit ACO-18.)

METHOD OF COMPLETION: ☐ Open Hole ☑ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)* ☐ Other *(Specify)*

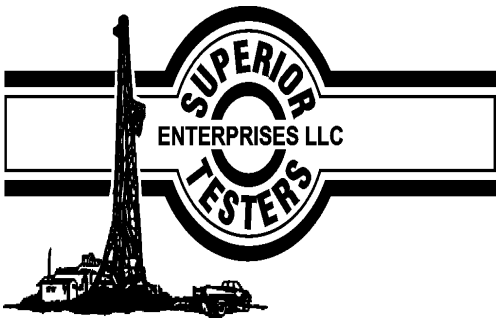
PRODUCTION INTERVAL: 3824-30'

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	Shelby Resources LLC
Well Name	WFYOG 2-3
Doc ID	1153744

All Electric Logs Run

Dual Induction
Compensated Neutron
Micro
Sonic
Cement Bond



DRILL STEM TEST REPORT

Prepared For: **Shelby Resources**

2717 Canal Blvd. Hays Kansas 67601

ATTN: Keith Reavis

WFYOG #2-3

3-22s-16w-Pawnee

Start Date: 2013.05.19 @ 04:30:00

End Date: 2013.05.19 @ 12:55:00

Job Ticket #: 18376 DST #: 1

Superior Testers Enterprises LLC

PO Box 138 Great Bend KS 67530

1-800-792-6902

Printed: 2013.05.21 @ 07:30:41

DRILL STEM TEST REPORT

Shelby Resources

2717 Canal Blvd. Hays Kansas 67601

ATTN: Keith Reavis

3-22s-16w-Pawnee

WFYOG #2-3

Job Ticket: 18376 **DST#: 1**

Test Start: 2013.05.19 @ 04:30:00

GENERAL INFORMATION:

Formation: **Conglomerate/Simpson**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 06:12:30
Time Test Ended: 12:55:00

Test Type: Conventional Bottom Hole (Initial)
Tester: Dustin Ellis
Unit No: 3315-Great Bend-46

Interval: 3787.00 ft (KB) To 3837.00 ft (KB) (TVD)
Total Depth: 3837.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

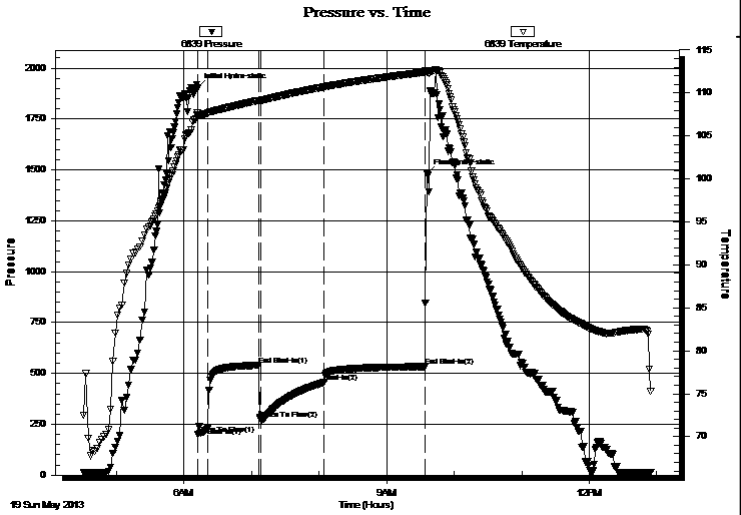
Reference Elevations: 1999.00 ft (KB)
1986.00 ft (CF)
KB to GR/CF: 13.00 ft

Serial #: 6839 **Inside**

Press@RunDepth: 455.54 psia @ 3833.38 ft (KB)
Start Date: 2013.05.19 End Date: 2013.05.19
Start Time: 04:31:00 End Time: 12:55:00

Capacity: 5000.00 psia
Last Calib.: 2013.05.19
Time On Btm: 2013.05.19 @ 06:12:00
Time Off Btm: 2013.05.19 @ 09:35:30

TEST COMMENT: 1st Open 10 minutes Strong Building blow blew off bottom of a 5 gallon bucket of water in 3 minutes.
1st Shut in 45 minutes Yes 1/2 inch blow back
2nd Open 60 minutes Srong blow blew of bottom bucket 2.5 minutes.
2nd Shut in 90 minutes Yes blow back bottom bucket.



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1902.29	107.71	Initial Hydro-static
1	200.91	107.36	Open To Flow (1)
10	233.23	107.66	Shut-In(1)
55	539.72	109.15	End Shut-In(1)
56	274.44	109.12	Open To Flow (2)
113	455.54	110.70	Shut-In(2)
202	533.30	112.42	End Shut-In(2)
204	1482.49	112.44	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
813.00	Clean gassy oil 100%	8.03
627.00	Oil cut gassy mud	8.80
0.00	Gas10% Oil60% Mud30%	0.00
0.00	2330 gas in pipe.	0.00
0.00	Gravity of oil 39 corrected	0.00

Gas Rates

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

DRILL STEM TEST REPORT

Shelby Resources

2717 Canal Blvd. Hays Kansas 67601

ATTN: Keith Reavis

3-22s-16w-Pawnee

WFYOG #2-3

Job Ticket: 18376 **DST#: 1**

Test Start: 2013.05.19 @ 04:30:00

GENERAL INFORMATION:

Formation: **Conglomerate/Simpson**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 06:12:30
Time Test Ended: 12:55:00

Test Type: Conventional Bottom Hole (Initial)
Tester: Dustin Ellis
Unit No: 3315-Great Bend-46

Interval: 3787.00 ft (KB) To 3837.00 ft (KB) (TVD)
Total Depth: 3837.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

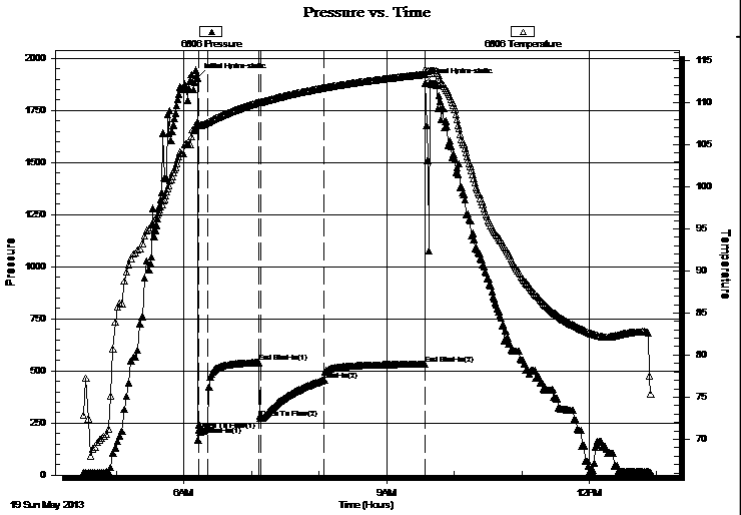
Reference Elevations: 1999.00 ft (KB)
1986.00 ft (CF)
KB to GR/CF: 13.00 ft

Serial #: 6806 **Inside**

Press@RunDepth: 533.53 psia @ 3834.38 ft (KB)
Start Date: 2013.05.19 End Date: 2013.05.19
Start Time: 04:31:00 End Time: 12:54:30

Capacity: 5000.00 psia
Last Calib.: 2013.05.19
Time On Btm: 2013.05.19 @ 06:12:00
Time Off Btm: 2013.05.19 @ 09:34:30

TEST COMMENT: 1st Open 10 minutes Strong Building blow blew off bottom of a 5 gallon bucket of water in 3 minutes.
1st Shut in 45 minutes Yes 1/2 inch blow back
2nd Open 60 minutes Srong blow blew of bottom bucket 2.5 minutes.
2nd Shut in 90 minutes Yes blow back bottom bucket.



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1906.01	107.73	Initial Hydro-static
1	216.13	107.37	Open To Flow (1)
10	234.11	107.63	Shut-In(1)
55	540.22	110.03	End Shut-In(1)
56	275.15	110.02	Open To Flow (2)
113	456.07	111.75	Shut-In(2)
203	533.53	113.36	End Shut-In(2)
203	1881.92	113.94	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
813.00	Clean gassy oil 100%	8.03
627.00	Oil cut gassy mud	8.80
0.00	Gas10% Oil60% Mud30%	0.00
0.00	2330 gas in pipe.	0.00
0.00	Gravity of oil 39 corrected	0.00

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Shelby Resources

2717 Canal Blvd. Hays Kansas 67601

ATTN: Keith Reavis

3-22s-16w-Pawnee

WFYOG #2-3

Job Ticket: 18376 **DST#: 1**

Test Start: 2013.05.19 @ 04:30:00

Tool Information

Drill Pipe:	Length:	3401.00 ft	Diameter:	3.80 inches	Volume:	47.71 bbl	Tool Weight:		2000.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight set on Packer:		20000.00 lb
Drill Collar:	Length:	370.71 ft	Diameter:	2.25 inches	Volume:	1.82 bbl	Weight to Pull Loose:		93000.00 lb
					Total Volume:	49.53 bbl	Tool Chased		0.00 ft
Drill Pipe Above KB:		12.71 ft					String Weight:	Initial	71000.00 lb
Depth to Top Packer:		3787.00 ft						Final	78000.00 lb
Depth to Bottom Packer:		ft							
Interval betw een Packers:		50.38 ft							
Tool Length:		78.38 ft							
Number of Packers:		2	Diameter:	6.75 inches					

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Shut-In Tool	5.00			3764.00		
Hydrolic Tool	5.00			3769.00		
Safety Joint	2.00			3771.00		
Jars	6.00			3777.00		
Packer	5.00			3782.00	28.00	Bottom Of Top Packer
Packer	5.00			3787.00		
Anchor	5.00			3792.00		
Change Over Sub	0.75			3792.75		
Drill Pipe	31.88			3824.63		
Change Over Sub	0.75			3825.38		
Anchor	7.00			3832.38		
Recorder	1.00	6839	Inside	3833.38		
Recorder	1.00	6806	Inside	3834.38		
Bullnose	3.00			3837.38	50.38	Bottom Packers & Anchor
Total Tool Length:	**78.38**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Shelby Resources

2717 Canal Blvd. Hays Kansas 67601

ATTN: Keith Reavis

3-22s-16w-Pawnee

WFYOG #2-3

Job Ticket: 18376 **DST#: 1**

Test Start: 2013.05.19 @ 04:30:00

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	49.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.35 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psia		
Salinity:	4900.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
813.00	Clean gassy oil 100%	8.027
627.00	Oil cut gassy mud	8.795
0.00	Gas10% Oil60% Mud30%	0.000
0.00	2330 gas in pipe.	0.000
0.00	Gravity of oil 39 corrected	0.000

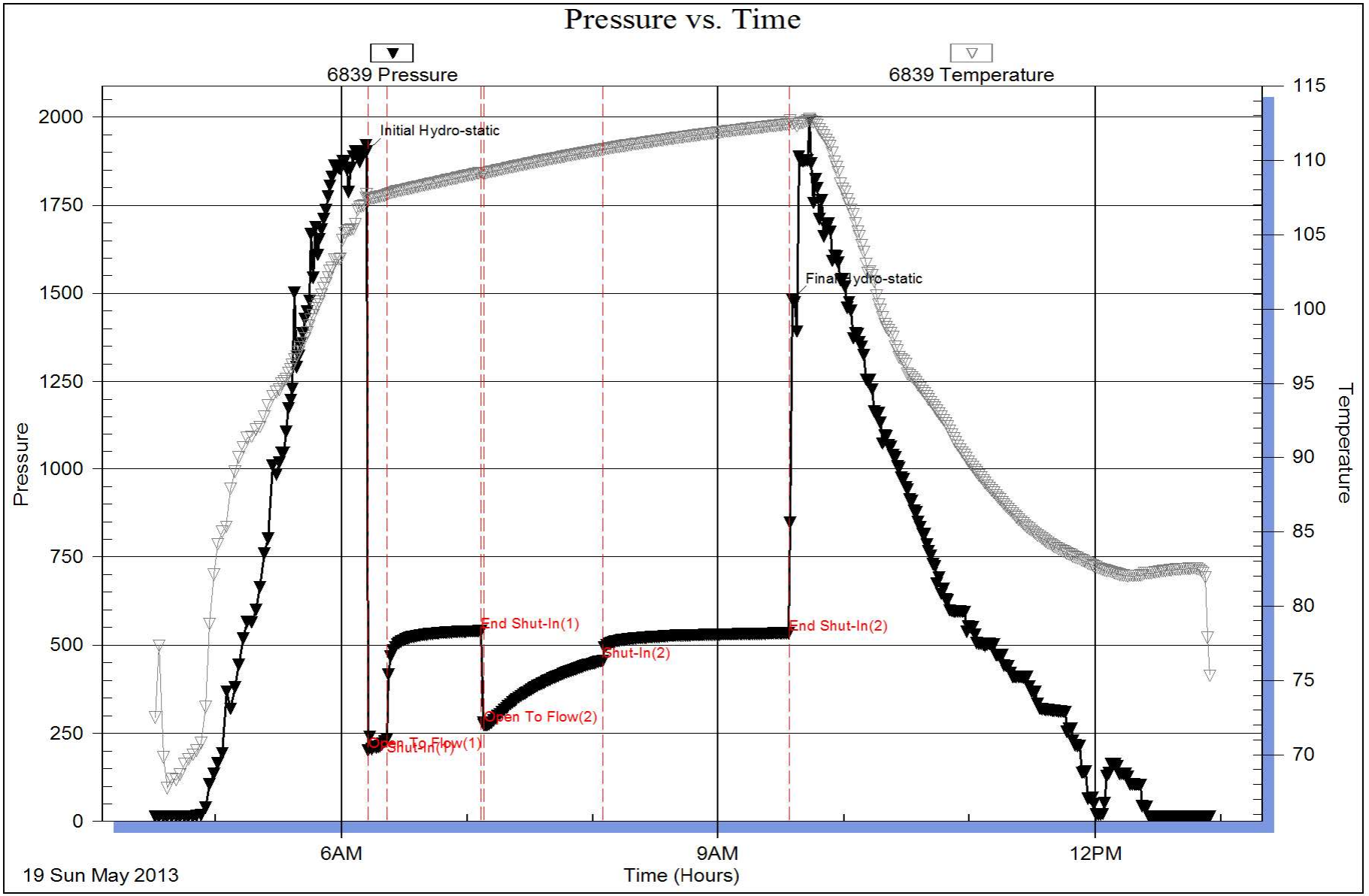
Total Length: 1440.00 ft Total Volume: 16.822 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

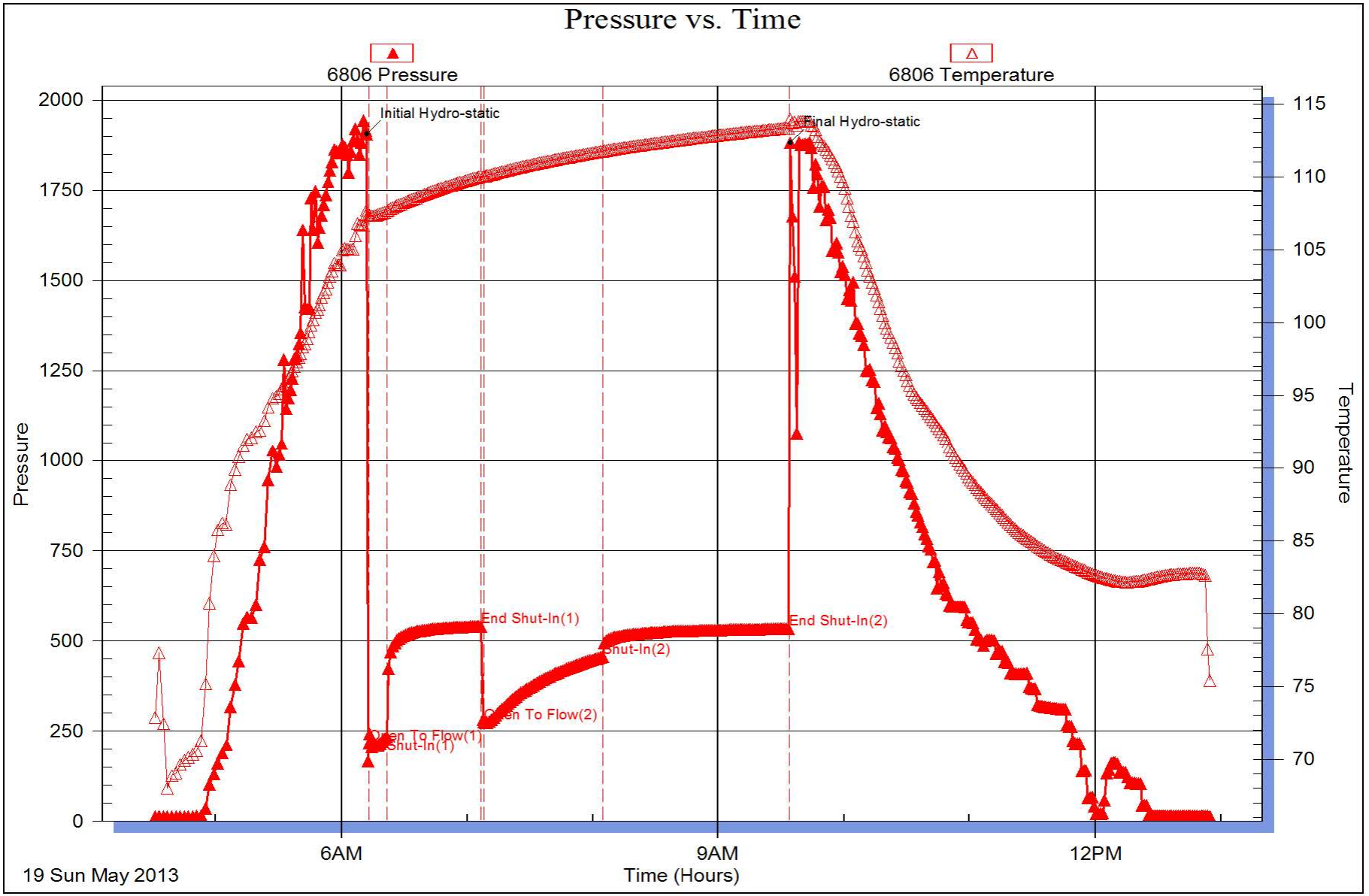
Recovery Comments:

Serial #: 6839 **Inside** Shelby Resources WFY OG #2-3 DST Test Number: 1

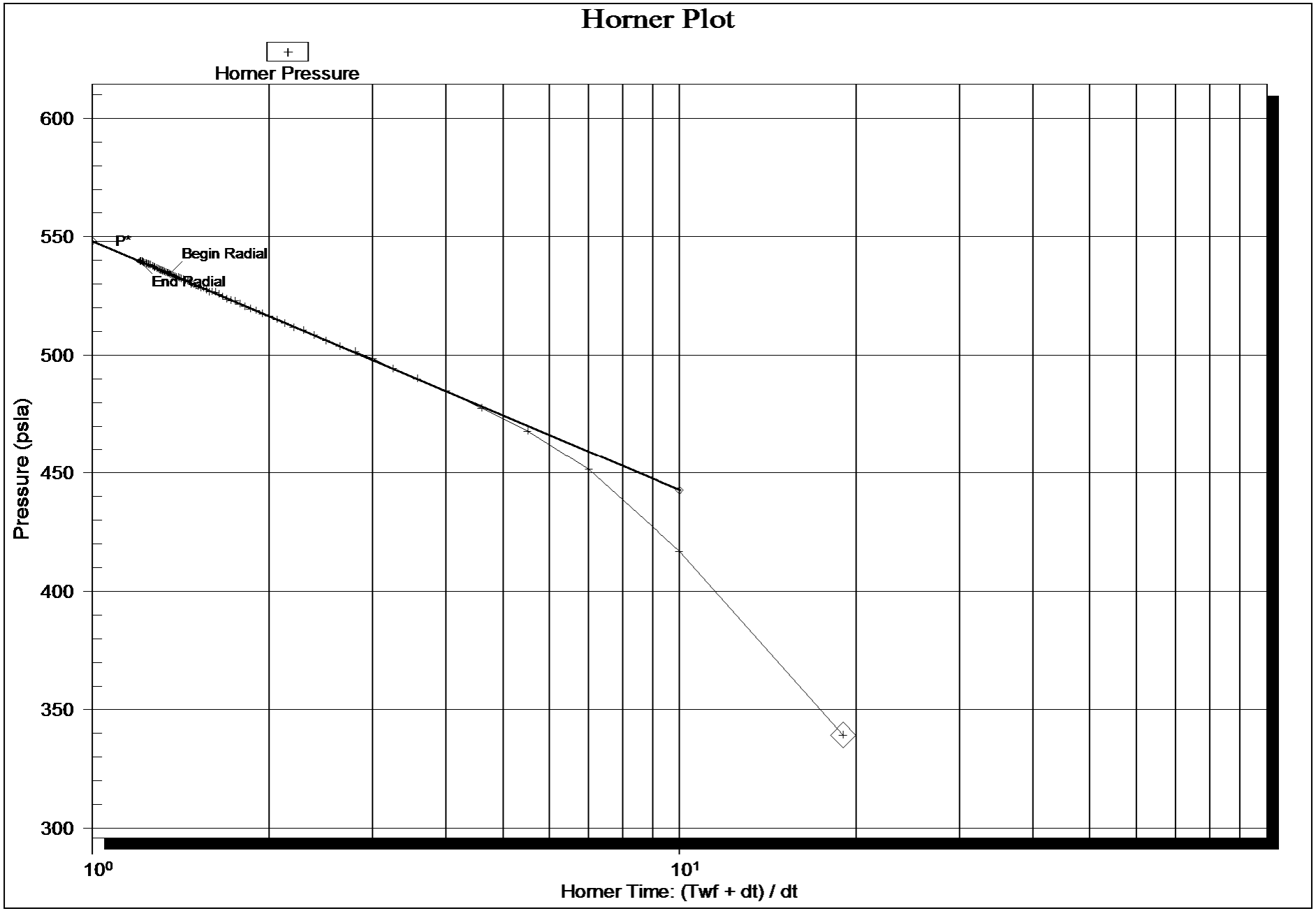


Superior Testers Enterprises LLC Ref. No: 18376 Printed: 2013.05.21 @ 07:30:42

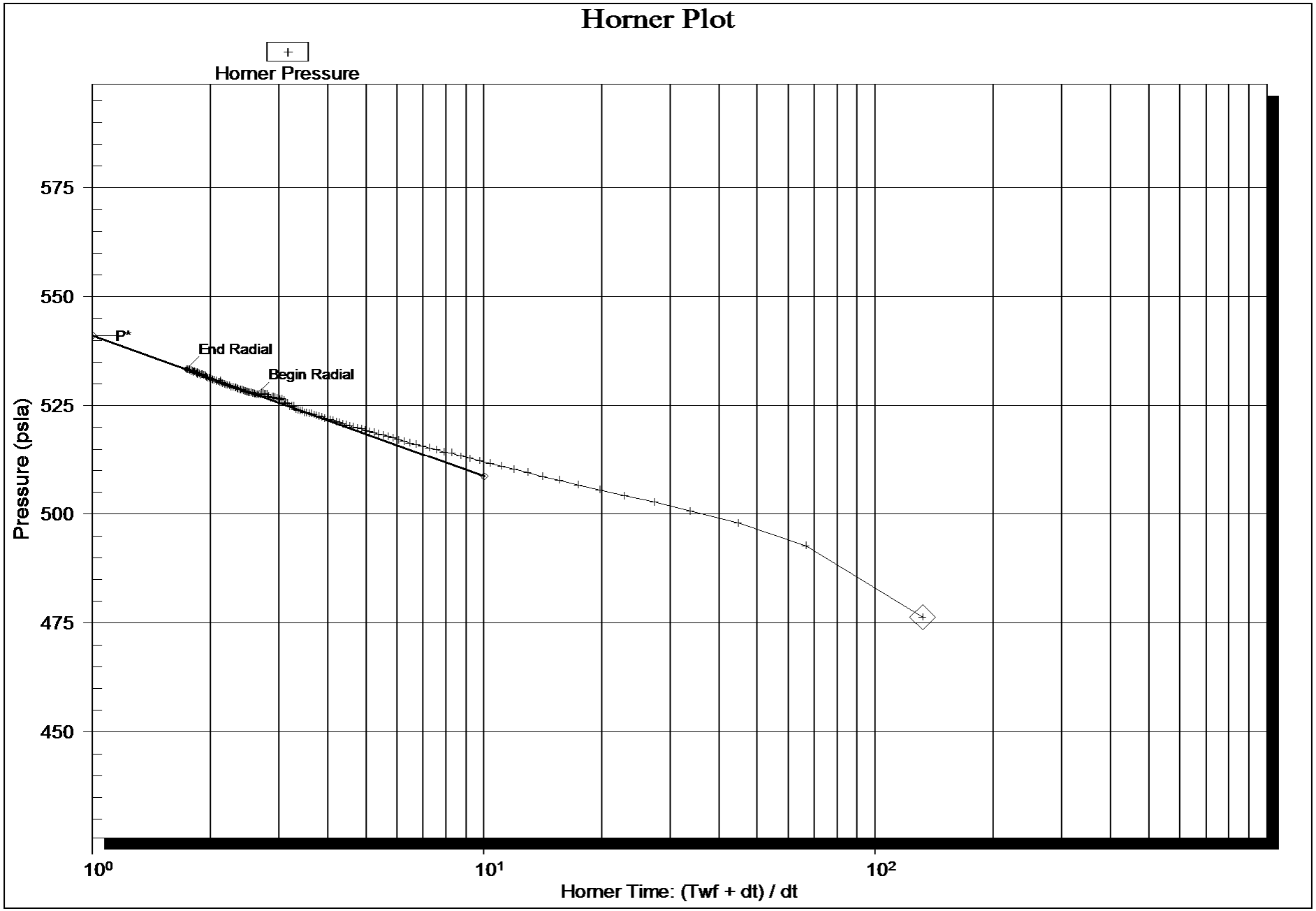
Serial #: 6806 **Inside** Shelby Resources WFY OG #2-3 DST Test Number: 1



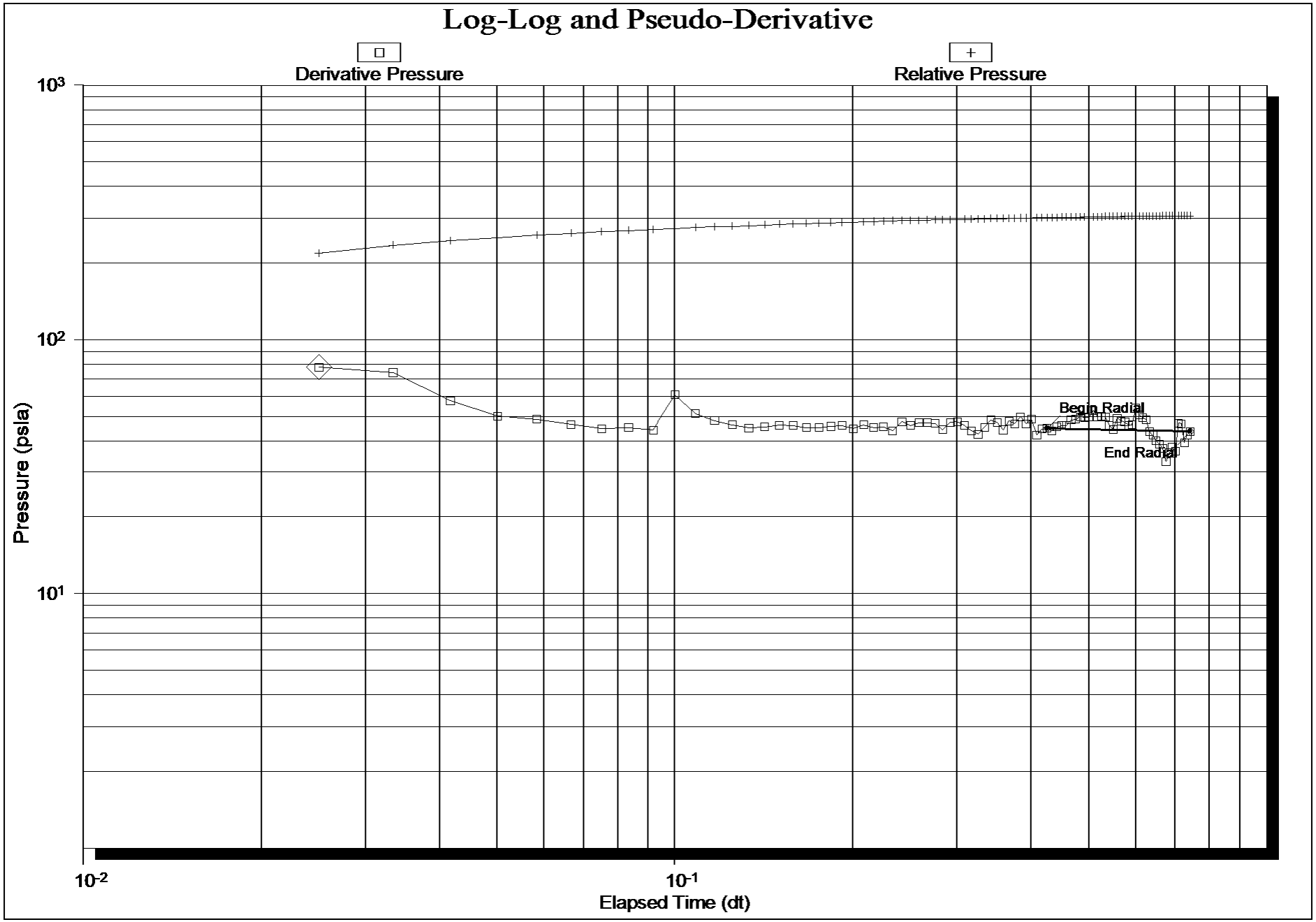
Superior Testers Enterprises LLC Ref. No: 18376 Printed: 2013.05.21 @ 07:30:43

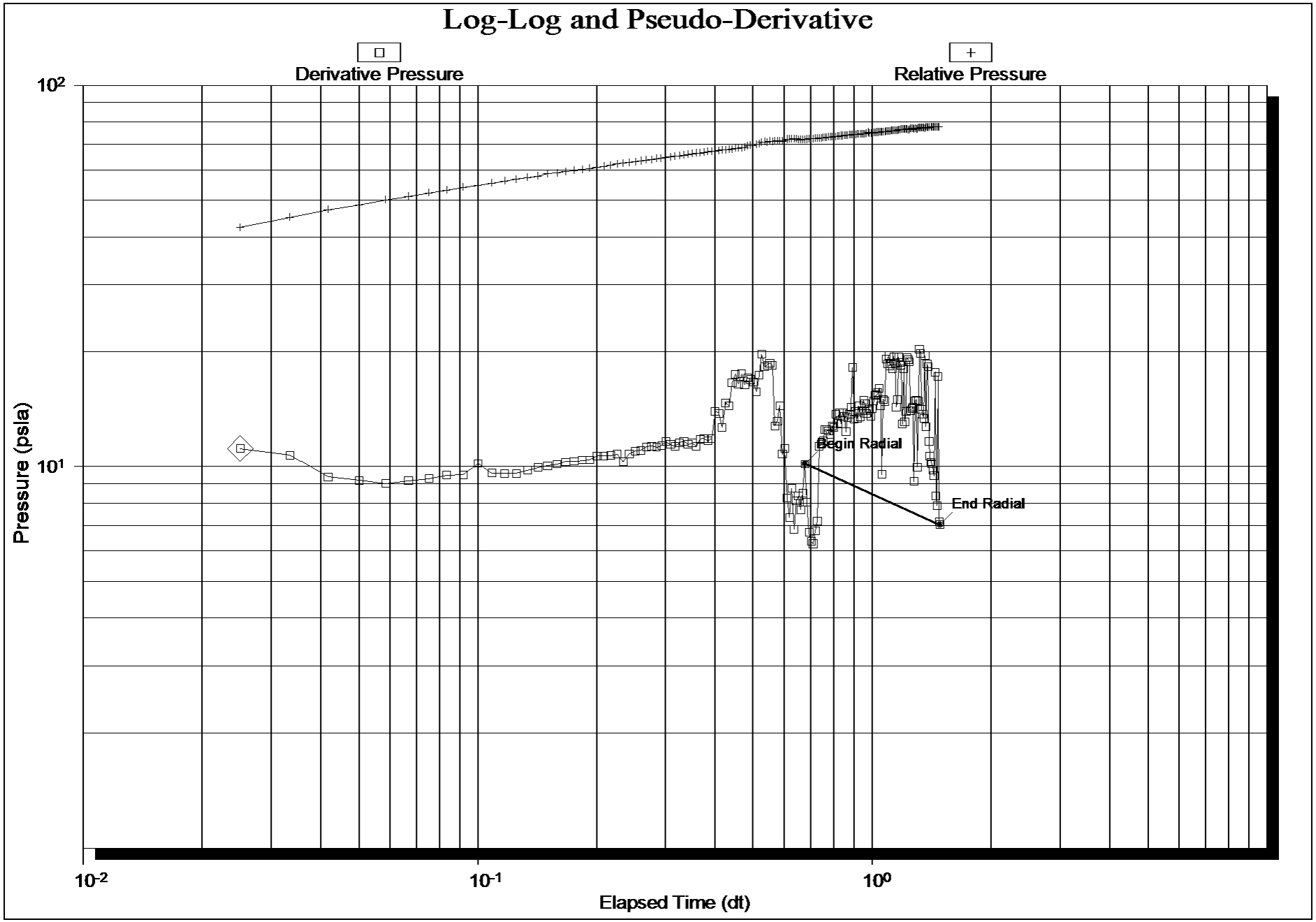


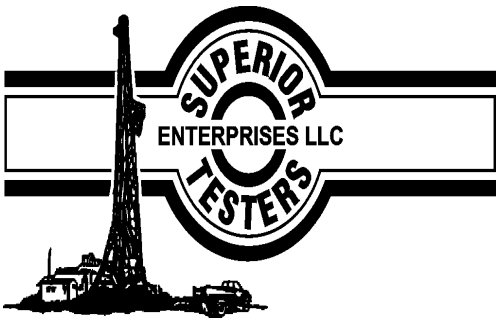
Serial Number: 6839 (Inside) P* : 548.11 Slope (m) : 105.37 kpa/log cycle Flow Cycle: 1



Serial Number: 6839 (Inside) P* : 541.07 Slope (m) : 32.41 kpa/log cycle Flow Cycle: 2


Log-Log and Pseudo-Derivative
Derivative Pressure
Relative Pressure
10^3
10^2
10^1
Pressure (psia)
Begin Radial
End Radial
10^-2
10^-1
Elapsed Time (dt)


Log-Log and Pseudo-Derivative
Derivative Pressure
Relative Pressure
10^2
10^1
Pressure (psia)
Begin Radial
End Radial
10^-2
10^-1
10^0
Elapsed Time (dt)



DRILL STEM TEST REPORT

Prepared For: **Shelby Resources**

2717 Canal Blvd. Hays Kansas 67601

ATTN: Keith Reavis

WFYOG #2-3

3-22s-16w-Pawnee

Start Date: 2013.05.19 @ 10:50:00

End Date: 2013.05.19 @ 15:43:00

Job Ticket #: 18377 DST #: 2

Superior Testers Enterprises LLC

PO Box 138 Great Bend KS 67530

1-800-792-6902

Printed: 2013.05.21 @ 07:46:56

DRILL STEM TEST REPORT

Shelby Resources

2717 Canal Blvd. Hays Kansas 67601

ATTN: Keith Reavis

3-22s-16w-Pawnee

WFYOG #2-3

Job Ticket: 18377 **DST#: 2**

Test Start: 2013.05.19 @ 10:50:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 12:41:00
Time Test Ended: 15:43:00

Test Type: Conventional Bottom Hole (Initial)
Tester: Dustin Ellis
Unit No: 3315-Great Bend-46

Interval: 3866.00 ft (KB) To 3871.00 ft (KB) (TVD)
Total Depth: 3871.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Poor

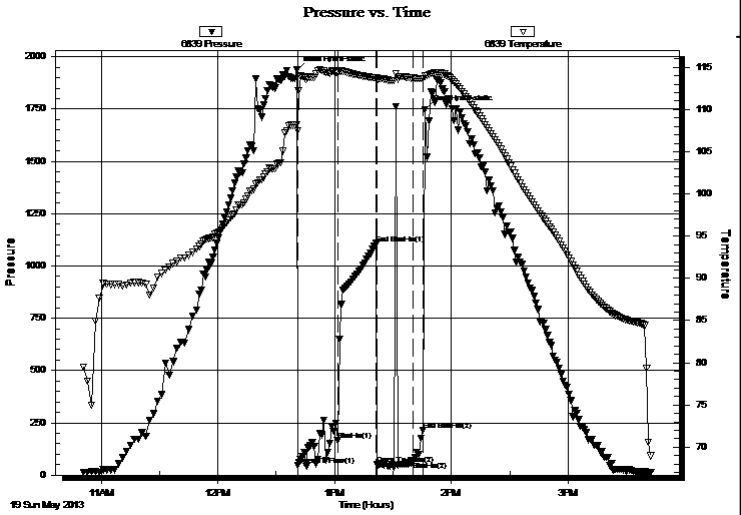
Reference Elevations: 1999.00 ft (KB)
1986.00 ft (CF)
KB to GR/CF: 13.00 ft

Serial #: 6839 **Inside**

Press@RunDepth: 66.32 psia @ 3867.00 ft (KB)
Start Date: 2013.05.19 End Date: 2013.05.19
Start Time: 10:51:00 End Time: 15:43:00

Capacity: 5000.00 psia
Last Calib.: 2013.05.20
Time On Btm: 2013.05.19 @ 12:40:30
Time Off Btm: 2013.05.19 @ 13:46:30

TEST COMMENT: 1st Open 10 minutes Weak surface blow died off after 6 minutes.
1st Shut in 30 minutes No blow back
2nd Open 20 minutes Dead ,Flushed tool no help.
2nd Shut in 5 minutes No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1935.65	108.20	Initial Hydro-static
1	45.52	107.53	Open To Flow (1)
21	167.13	114.31	Shut-In(1)
41	1107.56	113.73	End Shut-In(1)
42	53.20	113.39	Open To Flow (2)
60	66.32	113.71	Shut-In(2)
65	214.35	113.63	End Shut-In(2)
66	1747.63	113.98	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
4.00	Oil spotted mud . mud 100%	0.02

Gas Rates

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

DRILL STEM TEST REPORT

Shelby Resources

2717 Canal Blvd. Hays Kansas 67601

ATTN: Keith Reavis

3-22s-16w-Pawnee

WFYOG #2-3

Job Ticket: 18377 **DST#: 2**

Test Start: 2013.05.19 @ 10:50:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 12:41:00
Time Test Ended: 15:43:00

Test Type: Conventional Bottom Hole (Initial)
Tester: Dustin Ellis
Unit No: 3315-Great Bend-46

Interval: 3866.00 ft (KB) To 3871.00 ft (KB) (TVD)
Total Depth: 3871.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Poor

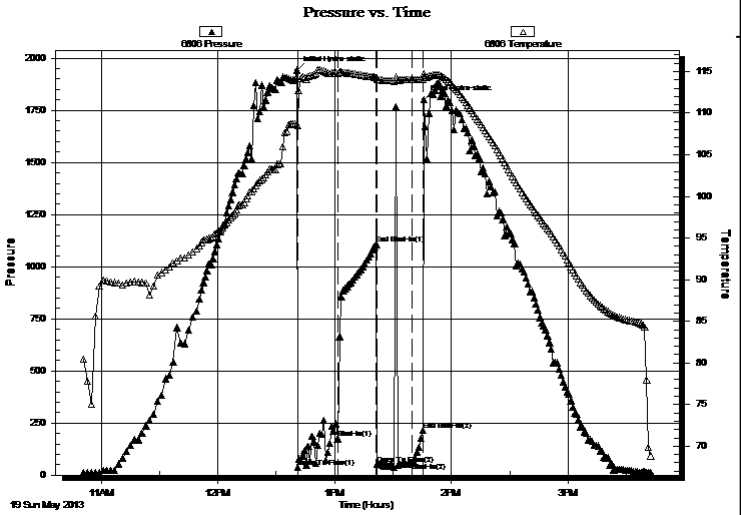
Reference Elevations: 1999.00 ft (KB)
1986.00 ft (CF)
KB to GR/CF: 13.00 ft

Serial #: 6806 **Outside**

Press@RunDepth: 216.53 psia @ 3868.00 ft (KB)
Start Date: 2013.05.19 End Date: 2013.05.19
Start Time: 10:51:00 End Time: 15:42:30

Capacity: 5000.00 psia
Last Calib.: 2013.05.20
Time On Btm: 2013.05.19 @ 12:40:30
Time Off Btm: 2013.05.19 @ 13:46:00

TEST COMMENT: 1st Open 10 minutes Weak surface blow died off after 6 minutes.
1st Shut in 30 minutes No blow back
2nd Open 20 minutes Dead ,Flushed tool no help.
2nd Shut in 5 minutes No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1942.52	108.67	Initial Hydro-static
1	37.45	108.49	Open To Flow (1)
21	174.76	114.76	Shut-In(1)
41	1107.30	114.30	End Shut-In(1)
42	54.36	114.04	Open To Flow (2)
60	62.44	114.02	Shut-In(2)
65	216.53	114.01	End Shut-In(2)
66	1802.21	114.74	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
4.00	Oil spotted mud . mud 100%	0.02

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Shelby Resources

2717 Canal Blvd. Hays Kansas 67601

ATTN: Keith Reavis

3-22s-16w-Pawnee

WFYOG #2-3

Job Ticket: 18377 **DST#: 2**

Test Start: 2013.05.19 @ 10:50:00

Tool Information

Drill Pipe:	Length:	3499.00 ft	Diameter:	3.80 inches	Volume:	49.08 bbl	Tool Weight:		2000.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight set on Packer:		20000.00 lb
Drill Collar:	Length:	370.71 ft	Diameter:	2.25 inches	Volume:	1.82 bbl	Weight to Pull Loose:		950000.0 lb
					Total Volume:	50.90 bbl	Tool Chased		0.00 ft
Drill Pipe Above KB:		31.71 ft					String Weight:	Initial	72000.00 lb
Depth to Top Packer:		3866.00 ft						Final	72000.00 lb
Depth to Bottom Packer:		ft							
Interval betw een Packers:		5.00 ft							
Tool Length:		33.00 ft							
Number of Packers:		2	Diameter:	6.75 inches					

Tool Comments: SHELL PACKER

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Shut-In Tool	5.00			3843.00		
Hydrolic Tool	5.00			3848.00		
Safety Joint	2.00			3850.00		
Jars	6.00			3856.00		
Packer	5.00			3861.00	28.00	Bottom Of Top Packer
Packer	5.00			3866.00		
Anchor	0.00			3866.00		
Recorder	1.00	6839	Inside	3867.00		
Recorder	1.00	6806	Outside	3868.00		
Bullnose	3.00			3871.00	5.00	Bottom Packers & Anchor
Total Tool Length:	**33.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Shelby Resources

2717 Canal Blvd. Hays Kansas 67601

ATTN: Keith Reavis

3-22s-16w-Pawnee

WFYOG #2-3

Job Ticket: 18377 **DST#: 2**

Test Start: 2013.05.19 @ 10:50:00

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	60.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	10.37 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psia		
Salinity:	5800.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
4.00	Oil spotted mud . mud 100%	0.020

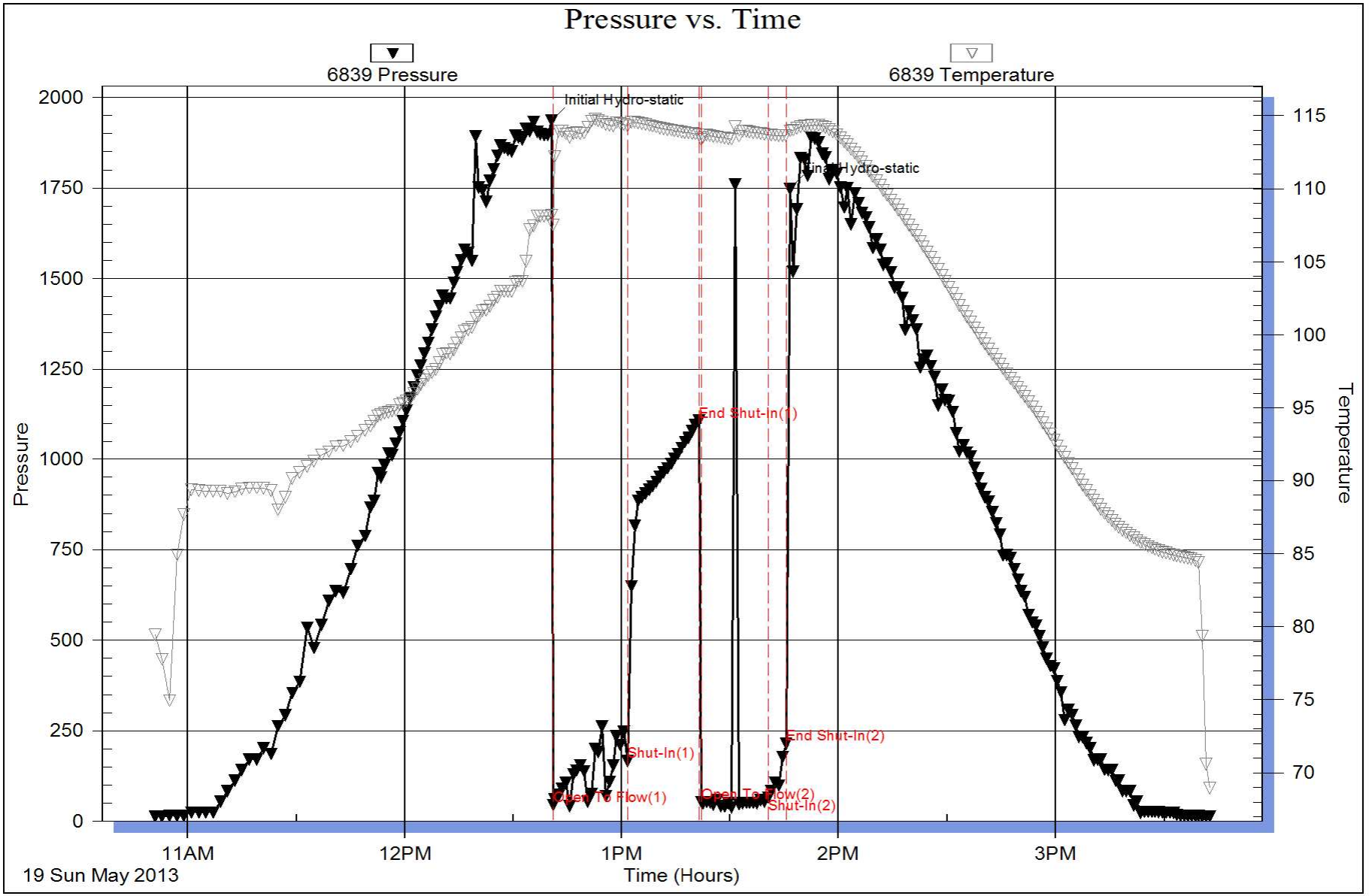
Total Length: 4.00 ft Total Volume: 0.020 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

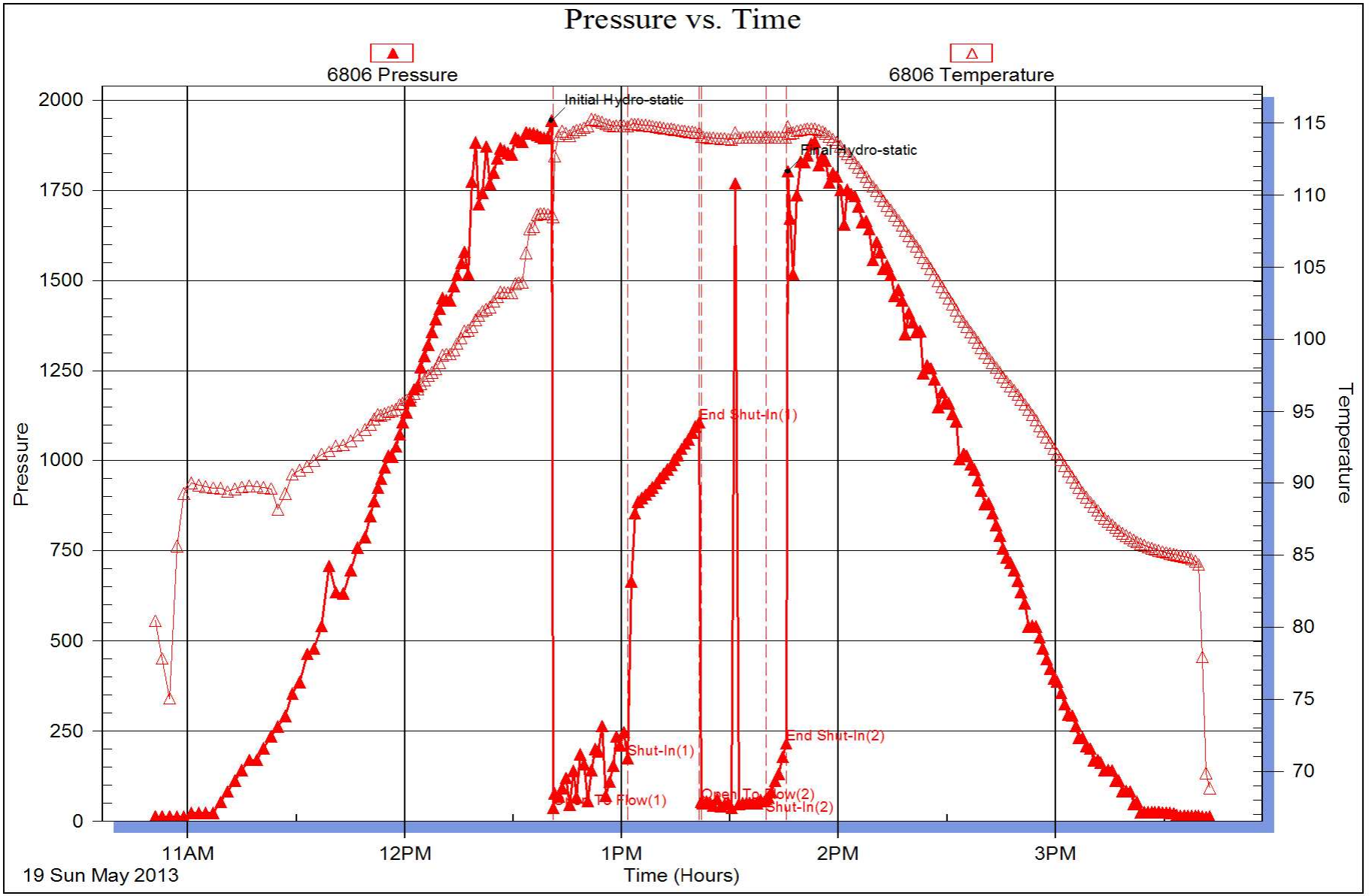
Recovery Comments: Shell Packer.

Serial #: 6839 **Inside** Shelby Resources WFY OG #2-3 DST Test Number: 2



Superior Testers Enterprises LLC Ref. No: 18377 Printed: 2013.05.21 @ 07:46:57

Serial #: 6806 **Outside** Shelby Resources WFY OG #2-3 DST Test Number: 2



Superior Testers Enterprises LLC Ref. No: 18377 Printed: 2013.05.21 @ 07:46:58

OPERATOR

Company:	Shelby Resources, LLC/Captiva II		
Address:	445 Union Blvd. Suite 208 Lakewood, CO 80228		
Contact Geologist:	Janine Sturdavant		
Contact Phone Nbr:	720-274-4682		
Well Name:	WFYOG #2-3		
Location:	Sec. 3 - T22S - R16W	API:	15-145-21716-0000
Pool:		Field:	Larned
State:	Kansas	Country:	USA

Shelby Resources L.L.C.

Scale 1:240 Imperial

Well Name:	WFYOG #2-3		
Surface Location:	Sec. 3 - T22S - R16W		
Bottom Location:			
API:	15-145-21716-0000		
License Number:	31725		
Spud Date:	5/15/2013	Time:	00:00
Region:	Pawnee County		
Drilling Completed:	5/20/2013	Time:	09:25
Surface Coordinates:	330' FNL & 2848' FWL		
Bottom Hole Coordinates:			
Ground Elevation:	1986.00ft		
K.B. Elevation:	1999.00ft		
Logged Interval:	3300.00ft	To:	3950.00ft
Total Depth:	3950.00ft		
Formation:	Arbuckle		
Drilling Fluid Type:	Chemical/Fresh Water Gel		

SURFACE CO-ORDINATES

Well Type:	Vertical		
Longitude:		Latitude:	
N/S Co-ord:	330' FNL		
E/W Co-ord:	2848' FWL		

LOGGED BY

Keith Reavis
Consulting Geologist

Company:	Keith Reavis, Inc.		
Address:	3420 22nd Street Great Bend, KS 67530		
Phone Nbr:	620-617-4091		
Logged By:	KLG #136	Name:	Keith Reavis

CONTRACTOR

Contractor:	Sterling Drilling Company		
Rig #:	5		
Rig Type:	mud rotary		
Spud Date:	5/15/2013	Time:	00:00
TD Date:	5/20/2013	Time:	09:25
Rig Release:		Time:	

ELEVATIONS

K.B. Elevation:	1999.00ft	Ground Elevation:	1986.00ft
K.B. to Ground:	13.00ft		

NOTES

Due to results of Drill Stem Test #1, it was determined that 5 1/2" production casing be set and the Simpson Sand be further evaluated through perforations and stimulation.

A Tooke Daq gas detection system owned and operated by Sterling Drilling was employed on the drilling of this well. ROP and gas data curves were imported into this log. Gamma ray and caliper curves from the electrical log suite were also imported.

The samples were saved and will be available for review at the Kansas Geological Survey Well Sample Library located in Wichita, KS.

Respectfully submitted,
Keith Reavis

Captiva II
daily drilling report

DATE	7:00 AM DEPTH	REMARKS
05/18/2013	3550	Geologist Keith Reavis on location @ 0635 hrs, 3541 ft., drilling ahead Lansing, stop and CFS to look at Douglas Sand, resume drilling, cut to Marmaton, strap and trip out with PDC, in with button bit, delayed due to pump clutch and waiting out storms, resumed drilling 2230 hrs
05/19/2013	3837	drilling conglomerate, possible Simpson, show and kick in sand warrants test, conduct and complete DST #1, successful test, back in hole with bit, resume drilling, cut Simpson and into Arbuckle, start out of hole for DST #2
05/20/2013	3871	conduct and complete DST #2, rathole ahead to TD, 3950' @ 0925 hrs, ctch, circ to 1430 hrs waiting on logging truck, TOH, logging shortly after 1800 hrs, complete logs, geologist released 2200 hrs

Captiva II
well comparison sheet

	DRILLING WELL Captiva II WFYOG #2-3 330' FNL & 2848' FWL Sec. 3, T22S R16W				COMPARISON WELL Captiva II WFYOG #1-3 330' FNL & 1602' FWL Sec. 3, T22S R16W				COMPARISON WELL Musgrove Baldwin A#2 SW NE NW Sec. 3, T22S R16W			
	1999 KB				1996 KB		Structural Relationship		1993 KB		Structural Relationship	
Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log	Log	Sub-Sea	Sample	Log
Heebner	3395	-1396	3396	-1397	3388	-1392	-4	-5	3394	-1401	5	4
Toronto	3413	-1414	3412	-1413	3406	-1410	-4	-3	3414	-1421	7	8
Douglas	3430	-1431	3430	-1431	3424	-1428	-3	-3				
Brown Lime	3504	-1505	3504	-1505	3496	-1500	-5	-5	3499	-1506	1	1
Lansing	3514	-1515	3514	-1515	3506	-1510	-5	-5	3508	-1515	0	0
Stark Shale	3699	-1700	3699	-1700	3694	-1698	-2	-2				
Base KC	3750	-1751	3749	-1750	3747	-1751	0	1	3731	-1738	-13	-12
Marmaton	3772	-1773	3770	-1771	3764	-1768	-5	-3				
Conglomerate	3799	-1800	3798	-1799	3794	-1798	-2	-1				
Simpson	3817	-1818	3819	-1820								
Simpson Sand	3824	-1825	3824	-1825								
Lower Simp Sh	3830	-1831	3831	-1832	3819	-1823	-8	-9	3815	-1822	-9	-10
Arbuckle	3866	-1867	3869	-1870	3855	-1859	-8	-11	3862	-1869	2	-1
Total Depth	3950	-1951	3950	-1951	3949	-1953	2	2	3871	-1878	-73	-73

Drill Stem Test #1

SUPERIOR ENTERPRISES LLC TESTERS

DRILL STEM TEST REPORT

Shelby Resources

2717 Canal Blvd. Hays Kansas 67601

ATTN: Keith Reavis

3-22s-16w-Pawnee

WFYOG #2-3

Job Ticket: 18376 **DST#: 1**

Test Start: 2013.05.19 @ 04:30:00

GENERAL INFORMATION:

Formation: **Conglomerate/Simpson**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 06:12:30
Time Test Ended: 12:55:00

Test Type: Conventional Bottom Hole (Initial)
Tester: Dustin Ellis
Unit No: 3315-Great Bend-46

Interval: 3787.00 ft (KB) To 3837.00 ft (KB) (TVD)
Total Depth: 3837.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

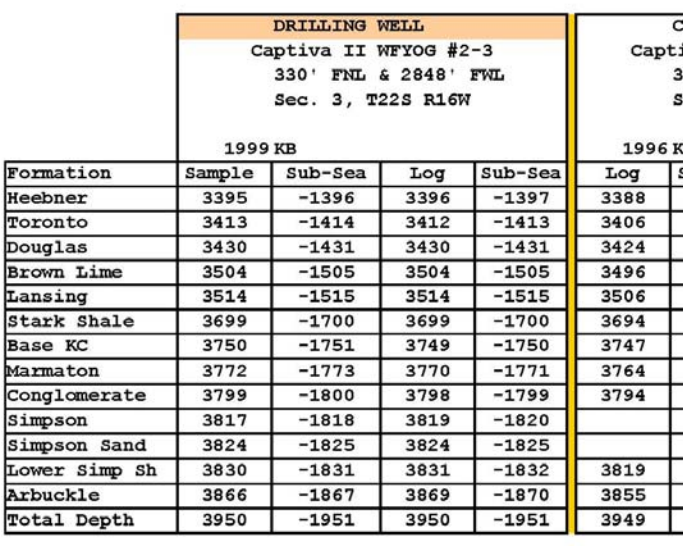
Reference Elevations: 1999.00 ft (KB)
1986.00 ft (CF)
KB to GR/CF: 13.00 ft

Serial #: 6839 **Inside**

Press@RunDepth: 455.54 psia @ 3833.38 ft (KB)
Start Date: 2013.05.19 End Date: 2013.05.19
Start Time: 04:31:00 End Time: 12:55:00

Capacity: 5000.00 psia
Last Calib.: 2013.05.19
Time On Btm: 2013.05.19 @ 06:12:00
Time Off Btm: 2013.05.19 @ 09:35:30

TEST COMMENT: 1st Open 10 minutes Strong Building blow blew off bottom of a 5 gallon bucket of water in 3 minutes.
1st Shut in 45 minutes Yes 1/2 inch blow back
2nd Open 60 minutes Srong blow blew of bottom bucket 2.5 minutes.
2nd Shut in 90 minutes Yes blow back bottom bucket.



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1902.29	107.71	Initial Hydro-static
1	200.91	107.36	Open To Flow (1)
10	233.23	107.66	Shut-In(1)
55	539.72	109.15	End Shut-In(1)
56	274.44	109.12	Open To Flow (2)
113	455.54	110.70	Shut-In(2)
202	533.30	112.42	End Shut-In(2)
204	1482.49	112.44	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
813.00	Clean gassy oil 100%	8.03
627.00	Oil cut gassy mud	8.80
0.00	Gas10% Oil60% Mud30%	0.00
0.00	2330 gas in pipe.	0.00
0.00	Gravity of oil 39 corrected	0.00

Gas Rates

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

DRILL STEM TEST REPORT

Shelby Resources

2717 Canal Blvd. Hays Kansas 67601

ATTN: Keith Reavis

3-22s-16w-Pawnee

WFYOG #2-3

Job Ticket: 18377 **DST#: 2**

Test Start: 2013.05.19 @ 10:50:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 12:41:00
Time Test Ended: 15:43:00

Test Type: Conventional Bottom Hole (Initial)
Tester: Dustin Ellis
Unit No: 3315-Great Bend-46

Interval: 3866.00 ft (KB) To 3871.00 ft (KB) (TVD)
Total Depth: 3871.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Poor

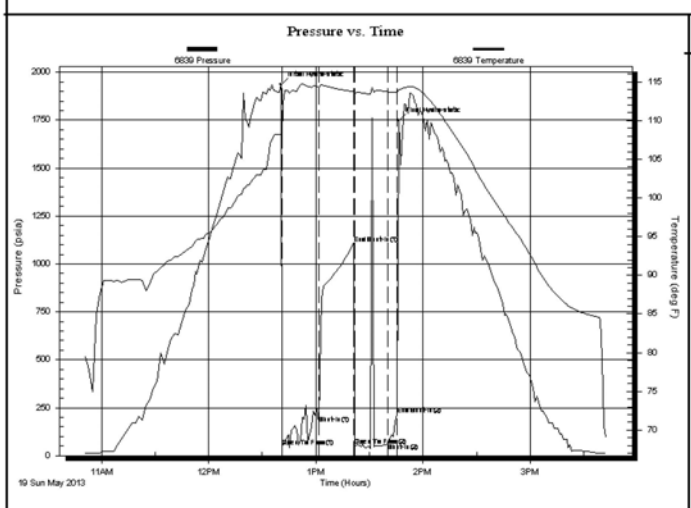
Reference Elevations: 1999.00 ft (KB)
1986.00 ft (CF)
KB to GR/CF: 13.00 ft

Serial #: 6839 **Inside**

Press@RunDepth: 66.32 psia @ 3867.00 ft (KB)
Start Date: 2013.05.19 End Date: 2013.05.19
Start Time: 10:50:00 End Time: 15:43:00

Capacity: 5000.00 psia
Last Calib.: 2013.05.20
Time On Btm: 2013.05.19 @ 12:40:30
Time Off Btm: 2013.05.19 @ 13:46:30

TEST COMMENT: 1st Open 10 minutes Weak surface blow died off after 6 minutes.
1st Shut in 30 minutes No blow back
2nd Open 20 minutes Dead ,Flushed tool no help.
2nd Shut in 5 minutes No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1935.65	108.20	Initial Hydro-static
1	45.52	107.53	Open To Flow (1)
21	167.13	114.31	Shut-In(1)
41	1107.56	113.73	End Shut-In(1)
42	53.20	113.39	Open To Flow (2)
60	66.32	113.71	Shut-In(2)
65	214.35	113.63	End Shut-In(2)
66	1747.63	113.98	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
4.00	Oil spotted mud . mud 100%	0.02

Gas Rates

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

ROCK TYPES

Cht vari, Chtcongl, Dolprim, Lmst fw<7, Lmst fw7>, shale, grn, shale, gry, Carbon Sh, shale, red, Ss, Sltst

ACCESSORIES

MINERAL
Chert, dark
P Pyrite
Sandy
Silty
Chert White
Mc Mica

FOSSIL
Bioclastic or Fragmental
F Fossils < 20%
Oolite
Pellets
Oomoldic

STRINGER
Sandstone
Siltstone

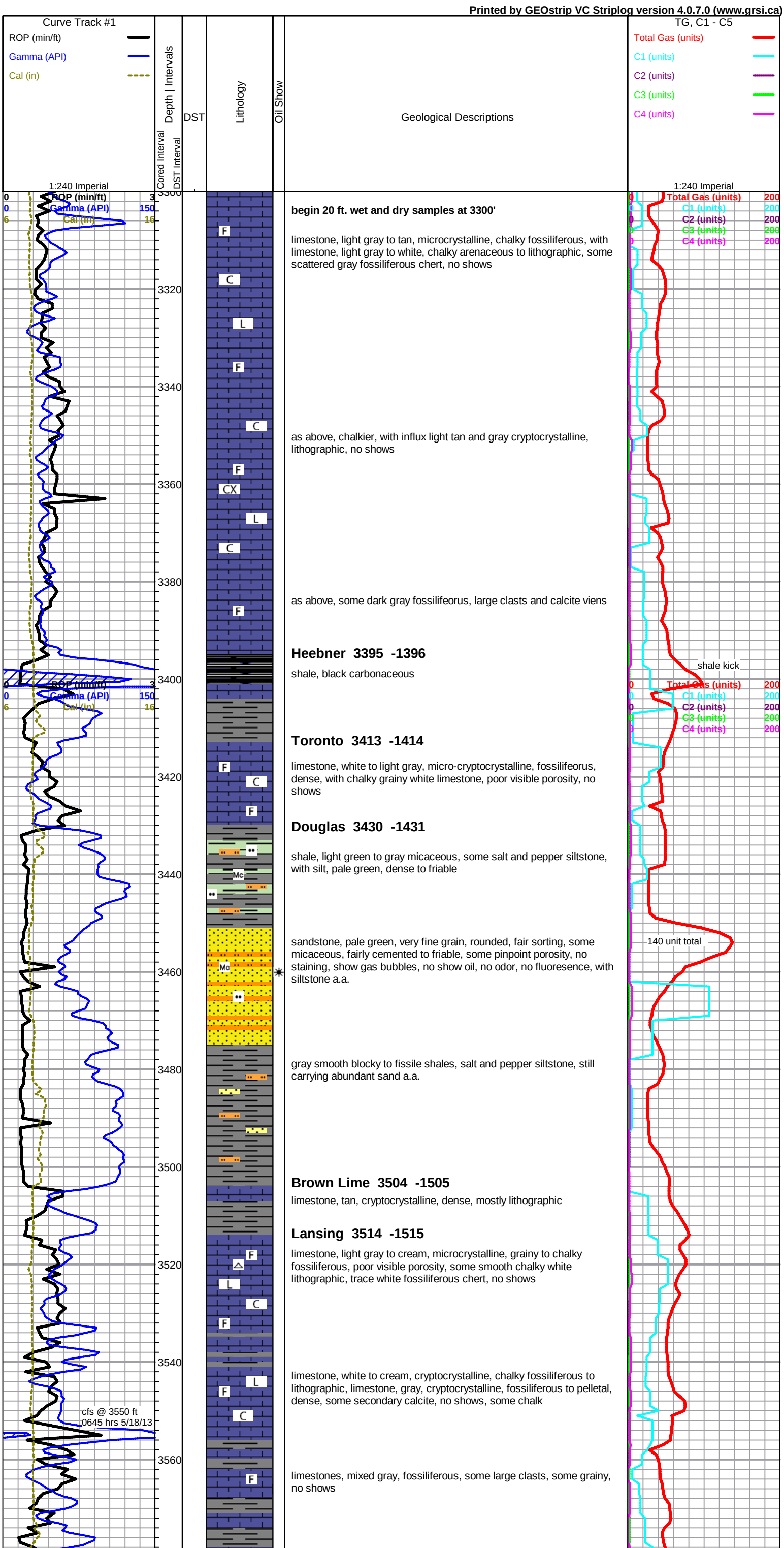
TEXTURE
C Chalky
CX Cryptocrystalline
L Lithogr

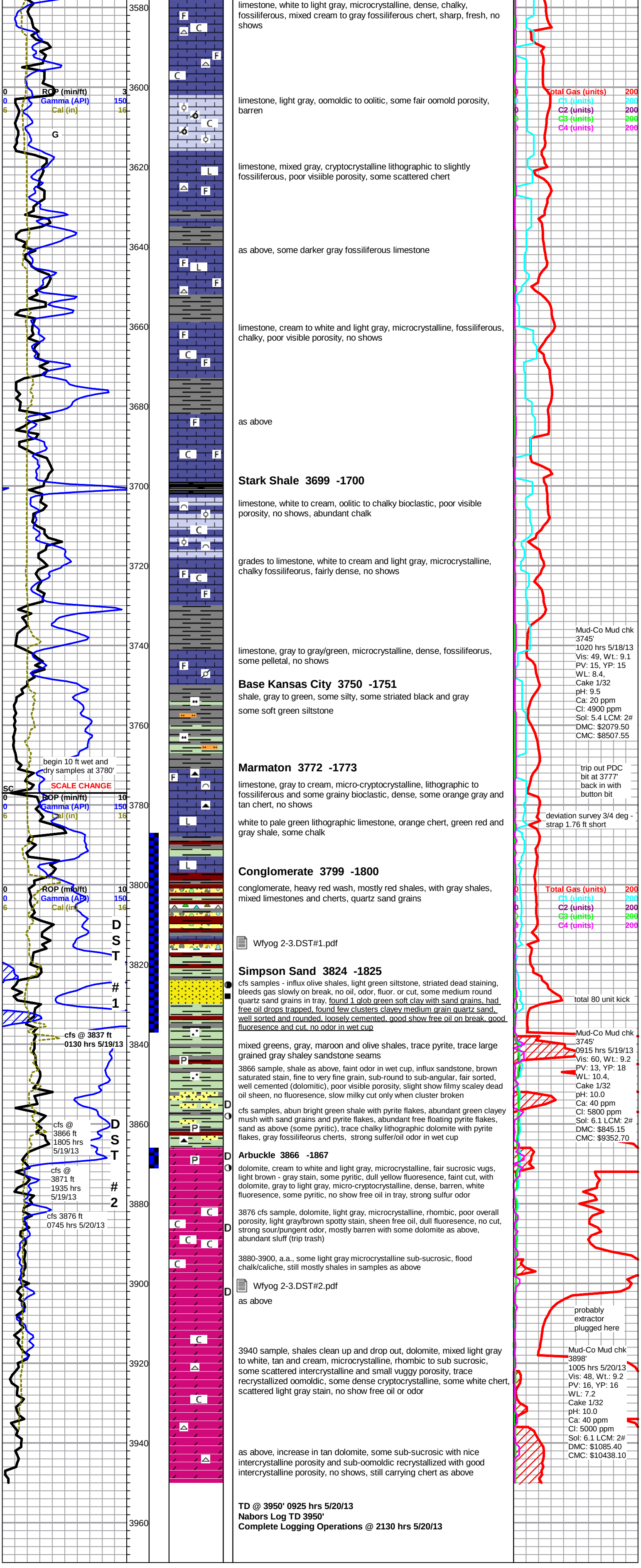
OTHER SYMBOLS

MISC
DR Daily Report
Digital Photo
Document
Folder
Link
Vertical Log File
Horizontal Log File
Core Log File
Drill Cuttings Rpt

DST
DST Int
DST alt
Core
tail pipe

Printed by GEOstrip VC Striplog version 4.0.7.0 (www.grsi.ca)





limestone, white to light gray, microcrystalline, dense, chalky, fossiliferous, mixed cream to gray fossiliferous chert, sharp, fresh, no shows

limestone, light gray, oomoldic to oolitic, some fair oomold porosity, barren

limestone, mixed gray, cryptocrystalline lithographic to slightly fossiliferous, poor visiible porosity, some scattered chert

as above, some darker gray fossiliferous limestone

limestone, cream to white and light gray, microcrystalline, fossiliferous, chalky, poor visible porosity, no shows

as above

Stark Shale 3699 -1700

limestone, white to cream, oolitic to chalky bioclastic, poor visible porosity, no shows, abundant chalk

grades to limestone, white to cream and light gray, microcrystalline, chalky fossilifeorus, fairly dense, no shows

limestone, gray to gray/green, microcrystalline, dense, fossilifeorus, some pelletal, no shows

Base Kansas City 3750 -1751

shale, gray to green, some silty, some striated black and gray

some soft green siltstone

Marmaton 3772 -1773

limestone, gray to cream, micro-cryptocrystalline, lithographic to fossiliferous and some grainy bioclastic, dense, some orange gray and tan chert, no shows

white to pale green lithographic limestone, orange chert, green red and gray shale, some chalk

Conglomerate 3799 -1800

conglomerate, heavy red wash, mostly red shales, with gray shales, mixed limestones and cherts, quartz sand grains

Wfyog 2-3.DST#1.pdf

Simpson Sand 3824 -1825

cfs samples - influx olive shales, light green siltstone, striated dead staining, bleeds gas slowly on break, no oil, odor, fluor. or cut, some medium round quartz sand grains in tray, found 1 glob green soft clay with sand grains, had free oil drops trapped, found few clusters clayey medium grain quartz sand, well sorted and rounded, loosely cemented, good show free oil on break, good fluoresence and cut, no odor in wet cup

mixed greens, gray, maroon and olive shales, trace pyrite, trace large grained gray shaley sandstone seams

3866 sample, shale as above, faint odor in wet cup, influx sandstone, brown saturated stain, fine to very fine grain, sub-round to sub-angular, fair sorted, well cemented (dolomitic), poor visible porosity, slight show filmy scaley dead oil sheen, no fluoresence, slow milky cut only when cluster broken

cfs samples, abun bright green shale with pyrite flakes, abundant green clayey mush with sand grains and pyrite flakes, abundant free floating pyrite flakes, sand as above (some pyritic), trace chalky lithographic dolomite with pyrite flakes, gray fossilifeorus cherts, strong sulfer/oil odor in wet cup

Arbuckle 3866 -1867

dolomite, cream to white and light gray, microcrystalline, fair sucrosic vugs, light brown - gray stain, some pyritic, dull yellow fluoresence, faint cut, with dolomite, gray to light gray, micro-cryptocrystalline, dense, barren, white fluoresence, some pyritic, no show free oil in tray, strong sulfur odor

3876 cfs sample, dolomite, light gray, microcrystalline, rhombic, poor overall porosity, light gray/brown spotty stain, sheen free oil, dull fluoresence, no cut, strong sour/pungent odor, mostly barren with some dolomite as above, abundant sluff (trip trash)

3880-3900, a.a., some light gray microcrystalline sub-sucrosic, flood chalk/caliche, still mostly shales in samples as above

Wfyog 2-3.DST#2.pdf

as above

3940 sample, shales clean up and drop out, dolomite, mixed light gray to white, tan and cream, microcrystalline, rhombic to sub sucrosic, some scattered intercrystalline and small vuggy porosity, trace recrystallized oomoldic, some dense cryptocrystalline, some white chert, scattered light gray stain, no show free oil or odor

as above, increase in tan dolomite, some sub-sucrosic with nice intercrystalline porosity and sub-oomoldic recrystallized with good intercrystalline porosity, no shows, still carrying chert as above

TD @ 3950' 0925 hrs 5/20/13
Nabors Log TD 3950'
Complete Logging Operations @ 2130 hrs 5/20/13

ALLIED OIL & GAS SERVICES, LLC 054111

Federal Tax I.D.# 20-5975804

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

SERVICE POINT: Russell KS

DATE 5-16-13	SEC. 3	TWP. 22	RANGE 16	CALLED OUT	ON LOCATION	JOB START 5:30AM	JOB FINISH 6:00AM
LEASE WFYOG	WELL # 2-3		LOCATION Larned KS 5 to 1st St 1½ E			COUNTY Pawnee	STATE KS
OLD OR (NEW) (Circle one)			5 into				

CONTRACTOR Sterling #5
TYPE OF JOB Long Surface
HOLE SIZE 12¼ T.D. 1005
CASING SIZE 8⅝ 23# DEPTH 1001.01
TUBING SIZE DEPTH
DRILL PIPE 4½ DEPTH 1005
TOOL DEPTH
PRES. MAX MINIMUM
MEAS. LINE SHOE JOINT 42.65
CEMENT LEFT IN CSG. 42.65
PERFS.
DISPLACEMENT 61 bbl

EQUIPMENT

PUMP TRUCK CEMENTER Robert Y
417 HELPER Woody O
BULK TRUCK
473 DRIVER Kevin R
BULK TRUCK
DRIVER

OWNER

CEMENT
AMOUNT ORDERED 400 60/40 3%cc 2%gel ¼# Flo

COMMON	240	@ 17.90	4296.00
POZMIX	160	@ 9.35	1496.00
GEL	7	@ 23.40	163.80
CHLORIDE	13	@ 64.00	832.00
ASC		@	
Flo-seal (100#)	4sx	@ 2.97	297.00
HANDLING	436.77 sx	@ 2.48	1083.20
MILEAGE	507.36 t/m	2.60	1319.13
		TOTAL	9487.13

REMARKS:

run 23jt of 8⅝ 23# csg recieve circulation
mix 400sk 60/40 3%cc 2%gel ¼# Flo
displace with water 62bbl ~~land plug~~ at ~~release~~ plug did not land
Cement did circulate to surface

Thank you!!!

SERVICE

DEPTH OF JOB	1001		
PUMP TRUCK CHARGE	2213.75		
EXTRA FOOTAGE		@	
MILEAGE	28 HVMI	@ 7.70	215.60
MANIFOLD		@	
	28 LVMI	@ 4.40	123.2
		@	
		TOTAL	2552.55

CHARGE TO: Shelby Resources
STREET
CITY STATE ZIP

PLUG & FLOAT EQUIPMENT

8⅝ Guide shoe	@ 460.98	460.98
AFU Insert	@ 446.94	446.94
Rubber Plug	@ 131.04	131.04
	@	
	@	
	TOTAL	1038.96

To: Allied Oil & Gas Services, LLC.
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

SALES TAX (If Any) 674.27
TOTAL CHARGES 13078.64
DISCOUNT 4054.38 IF PAID IN 30 DAYS BS 5-20

PRINTED NAME Alan Lotts
SIGNATURE Alan Lotts

before 5-20 Net 9024.26

BASIC energy services, L.P.

TREATMENT REPORT

Customer	SHELBY RES	Lease No.		Date	05-21-13
Lease	WF40	Well #	2-3		
Field Order #	18580	Station	PRATT KS	Casing 5 1/2	Depth 3930'
County	PAWNEE	State	KS		
Type Job	CNW 5 1/2 Long String	Formation		Legal Description	3-22-16

PIPE DATA		PERFORATING DATA		FLUID USED	TREATMENT RESUME		
Casing Size 5 1/2	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP
Depth 3930	Depth	From	To	Pre Pad	Max		5 Min.
Volume 95	Volume	From	To	Pad	Min		10 Min.
Max Press 2,000	Max Press	From	To	Frac	Avg		15 Min.
Well Connection P.C	Annulus Vol.	From	To		HHP Used		Annulus Pressure
Plug Depth 3909'	Packer Depth	From	To	Flush	Gas Volume		Total Load

Customer Representative	Station Manager	Treater
	DAVE SCOTT	Robert Lillie

Service Units	37900	33708	20920	19960	21010						
Driver Names	Sullivan	Romine		Mehl/Kaw							

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
6:00					ON LOC Safety meeting
					Run 94 jts 5 1/2 # 14 csg.
9:40					CASING ON Bottom
9:50					Hook Rig circ.
10:55	200		12	4	St Scavenger cmt 50sk
			76		St Tail cmt 150sk 60/40 2
					cmt mix'd Shut down, wash, Pump Liner
					Release Plug
				6	St Disp
	250		50 ~~380~~		Lift Ps.
	500		~~500~~	3	Slow Rate
12:00	1,500		95		Plug down
			7		Plug RH w/ 2sk
			5		Plug MH w/ 2sk
					JOB Complete
					Thank you

Taylor Printing, Inc. 620-672-3656

Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802

Kansas
Corporation Commission

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

July 31, 2013

Chris Gottschalk
Shelby Resources LLC
2717 Canal
Suite C
HAYS, KS 67601

Re: ACO1
API 15-145-21716-00-00
WFYOG 2-3
NE/4 Sec.03-22S-16W
Pawnee County, Kansas

Dear Production Department:

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

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

Respectfully,
Chris Gottschalk