Confidentiality Requested:
☐ Yes ☑ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1246899

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 # 6743
Name: Southwind Petroleum Corp.
Address 1: 1400 W 14TH ST
Address 2:
City: WICHITA State: KS Zip: 67203 + 2901
Contact Person: Robert Williams
Phone: (316) 267-3741
CONTRACTOR: License # 30606
Name: Murfin Drilling Co., Inc.
Wellsite Geologist: Robert Williams
Purchaser: NCRA

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 #:

10/06/2014	10/13/2014	11/13/2014
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-165-22097-00-00
Spot Description: NE NE NE
_ NE _ NE _ NE Sec. 34 Twp. 19 S. R. 16 ☐ East ☑ West
330 Feet from ☑ North / ☐ South Line of Section
330 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: Rush
Lease Name: George Well #: 34-1
Field Name: Ryan
Producing Formation: Arbuckle
Elevation: Ground: 2005 Kelly Bushing: 2010
Total Vertical Depth: 3900 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 1051 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: 11000 ppm Fluid volume: 750 bbls
Dewatering method used: Hauled to Disposal
Location of fluid disposal if hauled offsite:
Operator Name: Gra Ex LLC
Lease Name: Greenwich SWD License #: 33921
Quarter NW Sec. 3 Twp. 2 S. R. 14 ☐ East ☑ West
County: Stafford Permit #: D-24863

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:** NAOMI JAMES **Date:** 03/26/2015

1246899

Operator Name: Southwind Petroleum Corp. Lease Name: George Well #: 34-1

Sec. 34 Twp. 19 S. R. 16 ☐ East ☑ West County: Rush

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:

Gamma Ray-Dual Induction
Neutron-Density
Micro-Log

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

Name	Top	Datum
Base/Anhydrite	1070	+940
Heebner Shale	3327	-1317
Base/KC	3628	-1618
Arbuckle	3689	-1679

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	12.250	8.6250	24	1051	Common	400	3%gel, 2%CaCl
Production	7.875	5.50	14	3898	Common	130	10%salt, 2%gel

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

TUBING RECORD: Size: 2.875 Set At: 3700 Packer At:

Liner Run: ☐ Yes ☑ No

Date of First, Resumed Production, SWD or ENHR. 11/13/2014

Producing Method: ☐ Flowing ☐ Pumping ☐ Gas Lift ☑ Other *(Explain)* Swab test-Wait on SWDW

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	15		1000		37

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:
3728-33

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

QUALITY OILWELL CEMENTING, INC.

Phone 785-483-2025
Cell 785-324-1041
Federal Tax I.D.# 20-2886107
Home Office P.O. Box 32 Russell, KS 67665

No. 708

Date	Sec.	Twp.	Range	County	State	On Location	Finish
10-7-14	34	19	16	Rush	KS		4:00AM

Lease George Well No. 34-1 Location Great Bend 14W on Barton County Rd 5..

Contractor Murfin #16 Owner

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. 1052'

Csg. 8 5/8 Depth 1052 Charge To Southwind Petroleum

Tbg. Size Depth Street

Tool Depth City State

Cement Left in Csg. Shoe Joint 26' The above was done to satisfaction and supervision of owner agent or contractor.

Meas Line Displace 65 1/4 bbl Cement Amount Ordered 400 com 3% cc 2% Gel

EQUIPMENT

Pumptrk 5	No.	Cementer Helper	David
Bulktrk	No.	Driver Driver	Tylor
Bulktrk PU	No.	Driver Driver	Brett

JOB SERVICES & REMARKS

Remarks:

Rat Hole

Mouse Hole

Centralizers

Baskets

D/V or Port Collar

Cement Circulated!!

Common	400
Poz. Mix	
Gel.	8
Calcium	14
Hulls	
Salt	
Flowseal	
Kol-Seal	
Mud CLR 48	
CFL-117 or CD110 CAF 38	
Sand	
Handling	422
Mileage	
8 5/8	FLOAT EQUIPMENT
Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	
	Rubber Plug-1
	Baffle Plate-1
Pumptrk Charge	Long Surface
Mileage	14
Tax	
Discount	
Total Charge	

X Signature Ay Sibl

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. 669

Date	Sec.	Twp.	Range	County	State	On Location	Finish
10-12-14	34	19	16	Rush	KS		10:00 AM

Location Great Bend, 13½w, 5n 2

Lease George Well No. 34-1

Contractor Murfin #16

Type Job longstring

Hole Size 7⅞ T.D. 3900

Csg. 5½ 15.5# Depth 3898

Tbg. Size Depth

Tool Depth

Cement Left in Csg. Shoe Joint 15.03

Meas Line Displace 92.4 bbl

EQUIPMENT

Pumptrk 16 No. Cementer
Helper Lonnie W.

Bulktrk 14 No. Driver
Driver Tyler

Bulktrk PU No. Driver
Driver Travis

JOB SERVICES & REMARKS

Remarks:

Rat Hole 30sx

Mouse Hole 20sx

Centralizers 3,5,7,11,16

Baskets 17

D/V or Port Collar

Pipe on bottom broke circulation. Pumped 500gal Mud CLR 48 with 10bbl fw behind it. Plug Rat hole with 30sx and Mouse hole with 20sx. Hooked to 5½ Mixed 130sx com, 10% salt, 2% gel. Shut down and Washed pump and lines. Released plug and displaced with 92½bbl plug landed and held

Lift pressure 750 psi

Plug landed at 1500 psi

X Signature Thank You Rig 2

Owner

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.

Charge To Southwind Petroleum

Street

City State

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

Cement Amount Ordered 180sx com, 10% salt, 2% gel

Common	180
Poz. Mix	
Gel.	3
Calcium	
Hulls	
Salt	17
Flowseal	
Kol-Seal	
Mud CLR 48	500gal
CFL-117 or CD110 CAF 38	
Sand	
Handling	200
Mileage	

FLOAT EQUIPMENT

Guide Shoe	
Centralizer	5 turbos
Baskets	1
AFU Inserts	
Float Shoe	1
Latch Down	1
Pumptrk Charge	Prod String
Mileage	14
Tax	
Discount	
Total Charge	

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Southwind Petroleum**

1400 West 14th Street
Wichita KS 67203

ATTN: Bob Williams

George #34-1

34-19s-16w Rush,KS

Start Date: 2014.10.10 @ 02:58:00
End Date: 2014.10.10 @ 08:39:00
Job Ticket #: 60325 DST #: 1

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.10.15 @ 11:14:08

DRILL STEM TEST REPORT

Southwind Petroleum

1400 West 14th Street
Wichita KS 67203

ATTN: Bob Williams

34-19s-16w Rush,KS

George #34-1

Job Ticket: 60325 **DST#: 1**

Test Start: 2014.10.10 @ 02:58:00

GENERAL INFORMATION:

Formation: **LKC H**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 04:18:00
Time Test Ended: 08:39:00

Test Type: Conventional Bottom Hole (Initial)
Tester: Dustin Ellis
Unit No: S2

Interval: 3583.00 ft (KB) To 3605.00 ft (KB) (TVD)
Total Depth: 3605.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

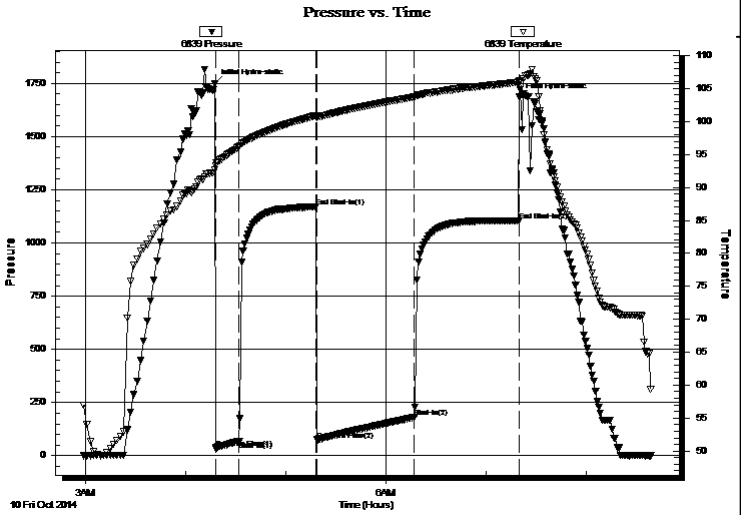
Reference Elevations: 2011.00 ft (KB)
2005.00 ft (CF)
KB to GR/CF: 6.00 ft

Serial #: 6839 **Inside**

Press@RunDepth: 180.59 psig @ 3600.00 ft (KB)
Start Date: 2014.10.10 End Date: 2014.10.10
Start Time: 02:59:00 End Time: 08:39:00

Capacity: 5000.00 psig
Last Calib.: 2014.10.10
Time On Btm: 2014.10.10 @ 04:17:30
Time Off Btm: 2014.10.10 @ 07:20:00

TEST COMMENT: 1st Open 15 minutes Weak building blow built to 7 inches.
1st Shut in 45 minutes No blow back
2nd Open 60 minutes Fair building blow built to the bottom of a 5 gallon bucket of water in 24 minutes.
2nd Shut in 60 minutes Yes blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1746.54	92.64	Initial Hydro-static
1	34.18	93.25	Open To Flow (1)
15	67.76	96.16	Shut-In(1)
61	1170.36	100.89	End Shut-In(1)
61	74.22	100.59	Open To Flow (2)
120	180.59	103.70	Shut-In(2)
182	1103.61	105.95	End Shut-In(2)
183	1684.70	106.19	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
257.00	Water 100%	3.35
63.00	Muddy water 5%Mud 95%Water	0.88

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Southwind Petroleum

1400 West 14th Street
Wichita KS 67203

ATTN: Bob Williams

34-19s-16w Rush,KS

George #34-1

Job Ticket: 60325 **DST#: 1**

Test Start: 2014.10.10 @ 02:58:00

Tool Information

Drill Pipe:	Length:	3544.00 ft	Diameter:	3.80 inches	Volume:	49.71 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:	28.42 ft	Diameter:	2.25 inches	Volume:	0.14 bbl	Weight to Pull Loose:		80000.00 lb
					Total Volume:	49.85 bbl	Tool Chased		0.00 ft
Drill Pipe Above KB:		17.42 ft					String Weight:	Initial	52000.00 lb
Depth to Top Packer:		3583.00 ft						Final	53000.00 lb
Depth to Bottom Packer:		ft							
Interval between Packers:		22.00 ft							
Tool Length:		50.00 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			3560.00		
Hydraulic tool	5.00			3565.00		
Jars	6.00			3571.00		
Safety Joint	2.00			3573.00		
Top Packer	5.00			3578.00		
Packer	5.00			3583.00	28.00	Bottom Of Top Packer
Perforations	17.00			3600.00		
Recorder	0.00	6839	Inside	3600.00		
Recorder	0.00	6999	Outside	3600.00		
Bull Plug	5.00			3605.00	22.00	Anchor Tool
Total Tool Length:	**50.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Southwind Petroleum

1400 West 14th Street
Wichita KS 67203

ATTN: Bob Williams

34-19s-16w Rush,KS

George #34-1

Job Ticket: 60325 **DST#: 1**

Test Start: 2014.10.10 @ 02:58:00

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:	55.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.79 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	5000.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

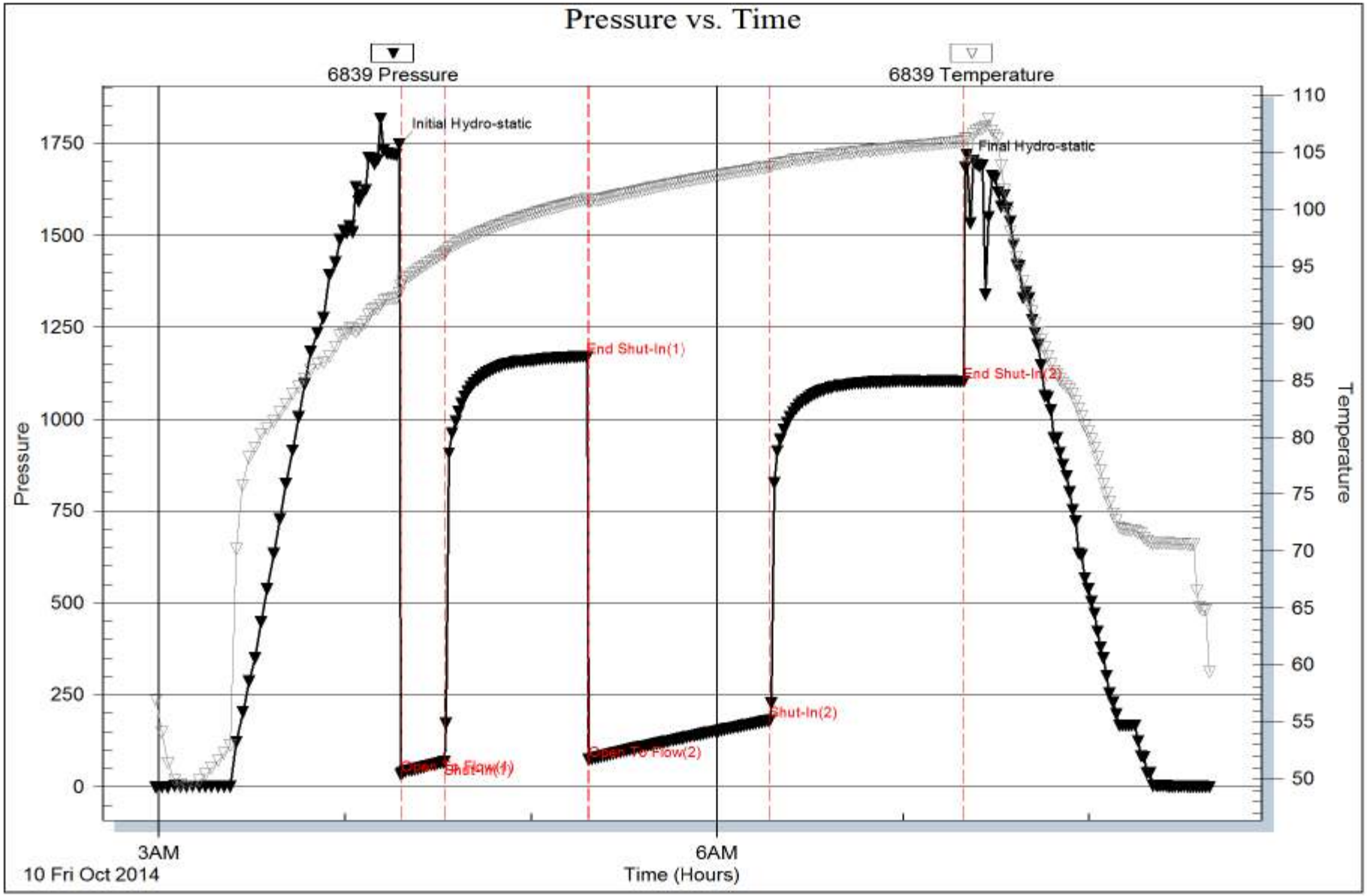
Recovery Table

Length ft	Description	Volume bbl
257.00	Water 100%	3.346
63.00	Muddy water 5%Mud 95%Water	0.884

Total Length: 320.00 ft Total Volume: 4.230 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 6839 **Inside** Southw ind Petroleum George #34-1 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 60325 Printed: 2014.10.15 @ 11:14:10

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Southwind Petroleum**

1400 West 14th Street
Wichita KS 67203

ATTN: Bob Williams

George #34-1

34-19s-16w Rush,KS

Start Date: 2014.10.11 @ 05:30:00

End Date: 2014.10.11 @ 11:41:30

Job Ticket #: 60276 DST #: 2

Trilobite Testing, Inc

1515 Commerce Parkway Hays, KS 67601

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

Printed: 2014.10.15 @ 11:11:43

DRILL STEM TEST REPORT

Southwind Petroleum

1400 West 14th Street
Wichita KS 67203

ATTN: Bob Williams

34-19s-16w Rush,KS

George #34-1

Job Ticket: 60276 **DST#: 2**

Test Start: 2014.10.11 @ 05:30:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 06:44:30
Time Test Ended: 11:41:30

Test Type: Conventional Straddle (Initial)
Tester: Dustin Ellis
Unit No: S2

Interval: 3720.00 ft (KB) To 3740.00 ft (KB) (TVD)
Total Depth: 3900.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

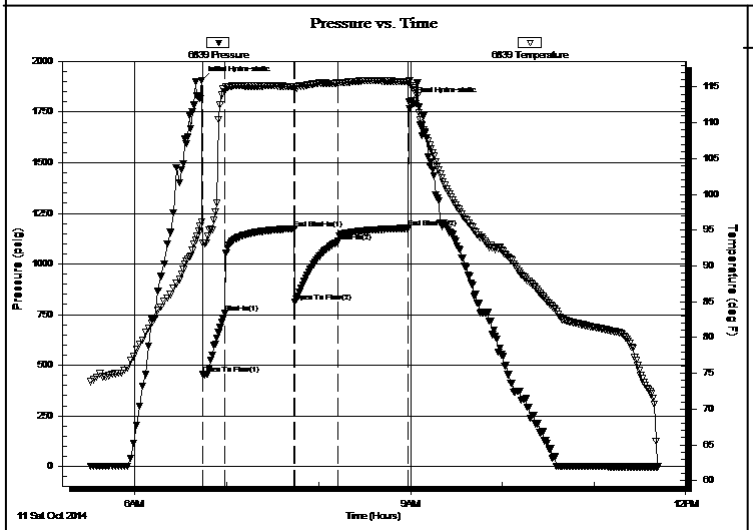
Reference Elevations: 2011.00 ft (KB)
2005.00 ft (CF)
KB to GR/CF: 6.00 ft

Serial #: 6839 **Outside**

Press@RunDepth: 1110.86 psig @ 3722.16 ft (KB)
Start Date: 2014.10.11 End Date: 2014.10.11
Start Time: 05:31:00 End Time: 11:41:30

Capacity: 5000.00 psig
Last Calib.: 2014.10.12
Time On Btm: 2014.10.11 @ 06:43:30
Time Off Btm: 2014.10.11 @ 08:59:00

TEST COMMENT: 1st Open 15 minutes Strong building blow built to the bottom of a 5 gallon bucket of water in 1 minute.
1st Shut in 45 minutes Yes blow back.
2nd Open 30 minutes Strong building blow built to the bottom of a 5 gallon bucket of water instantly.
2nd Shut in 45 minues Yes blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1906.36	96.13	Initial Hydro-static
1	455.67	93.21	Open To Flow (1)
15	756.52	114.34	Shut-In(1)
61	1175.08	115.00	End Shut-In(1)
61	812.50	114.82	Open To Flow (2)
89	1110.86	115.56	Shut-In(2)
135	1176.82	115.74	End Shut-In(2)
136	1801.50	115.92	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
441.00	Muddy Water Water 50% Mud 50%	5.92
977.00	Gassy water cut muddy oil	13.70
0.00	Water 74% Gas 20% Mud 5% Oil 1%	0.00
882.00	Water 100%	12.37
0.00	440 Gas in pipe.	0.00

Gas Rates

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

DRILL STEM TEST REPORT

Southwind Petroleum

1400 West 14th Street
Wichita KS 67203

ATTN: Bob Williams

34-19s-16w Rush,KS

George #34-1

Job Ticket: 60276 **DST#: 2**

Test Start: 2014.10.11 @ 05:30:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 06:44:30
Time Test Ended: 11:41:30

Test Type: Conventional Straddle (Initial)
Tester: Dustin Ellis
Unit No: S2

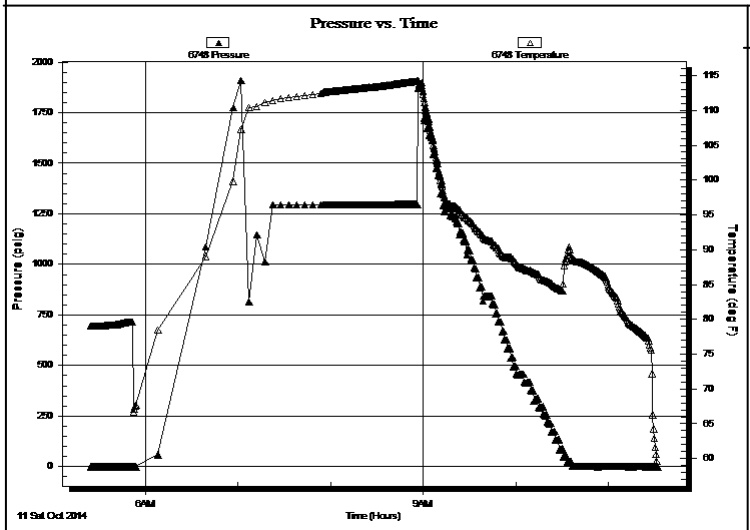
Interval: 3720.00 ft (KB) To 3740.00 ft (KB) (TVD)
Total Depth: 3900.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2011.00 ft (KB)
2005.00 ft (CF)
KB to GR/CF: 6.00 ft

Serial #: 6748 **Below (Straddle)**
Press@RunDepth: psig @ 3743.89 ft (KB)
Start Date: 2014.10.11 End Date: 2014.10.11
Start Time: 05:24:44 End Time: 11:31:54

Capacity: 5000.00 psig
Last Calib.: 2014.10.12
Time On Btm:
Time Off Btm:

TEST COMMENT: 1st Open 15 minutes Strong building blow built to the bottom of a 5 gallon bucket of water in 1 minute.
1st Shut in 45 minutes Yes blow back.
2nd Open 30 minutes Strong building blow built to the bottom of a 5 gallon bucket of water instantly.
2nd Shut in 45 minues Yes blow back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
441.00	Muddy Water Water 50% Mud 50%	5.92
977.00	Gassy water cut muddy oil	13.70
0.00	Water 74% Gas 20% Mud 5% Oil 1%	0.00
882.00	Water 100%	12.37
0.00	440 Gas in pipe.	0.00

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Southwind Petroleum

1400 West 14th Street
Wichita KS 67203

ATTN: Bob Williams

34-19s-16w Rush,KS

George #34-1

Job Ticket: 60276 **DST#: 2**

Test Start: 2014.10.11 @ 05:30:00

Tool Information

Drill Pipe:	Length:	3688.00 ft	Diameter:	3.80 inches	Volume:	51.73 bbl	
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	
Drill Collar:	Length:	28.76 ft	Diameter:	2.25 inches	Volume:	0.14 bbl	
					Total Volume:	51.87 bbl	

Drill Pipe Above KB:	19.37 ft
Depth to Top Packer:	3720.00 ft
Depth to Bottom Packer:	3740.37 ft
Interval between Packers:	20.37 ft
Tool Length:	47.28 ft
Number of Packers:	3 Diameter: 6.75 inches

Tool Weight:	2000.00 lb
Weight set on Packer:	20000.00 lb
Weight to Pull Loose:	83000.00 lb
Tool Chased	0.00 ft
String Weight: Initial	53000.00 lb
Final	63000.00 lb

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
P.O. Sub	0.31			3697.70		
C.O. Sub	0.31			3698.01		
P.O. Sub	0.31			3698.32		
Recorder	1.80		Fluid	3700.12		
Conv. S.I. Tool	1.52			3701.64		
Sampler	1.10			3702.74		
HMV	2.10			3704.84		
Recorder	1.80		Inside	3706.64		
Telemetry Tool	7.01			3713.65		
Jars	2.05			3715.70		
Bypass Hanger	0.32			3716.02		
Safety Joint	0.78			3716.80		
Packer	1.78			3718.58	22.61	Bottom Of Top Packer
Packer	1.42			3720.00		
Stubb	0.36			3720.36		
Recorder Carrier	1.80			3722.16		
Recorder	0.00	6839	Outside	3722.16		
Recorder	0.00		Outside	3722.16		
Perforations	17.00			3739.16		
Bypass Receiver	0.85			3740.01		
Blank Spacing	0.00			3740.01		
Stubb	0.36			3740.37	20.37	Tool Interval
Packer	1.42			3741.79		
Bypass Hanger	0.30			3742.09		
Recorder	1.80	6748	Below	3743.89		
Collar	0.00			3743.89		

DRILL STEM TEST REPORT

FLUID SUMMARY

Southwind Petroleum

1400 West 14th Street
Wichita KS 67203

ATTN: Bob Williams

34-19s-16w Rush,KS

George #34-1

Job Ticket: 60276 **DST#: 2**

Test Start: 2014.10.11 @ 05:30:00

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:	54.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.99 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	6000.00 ppm				
Filter Cake:	8.00 inches				

Recovery Information

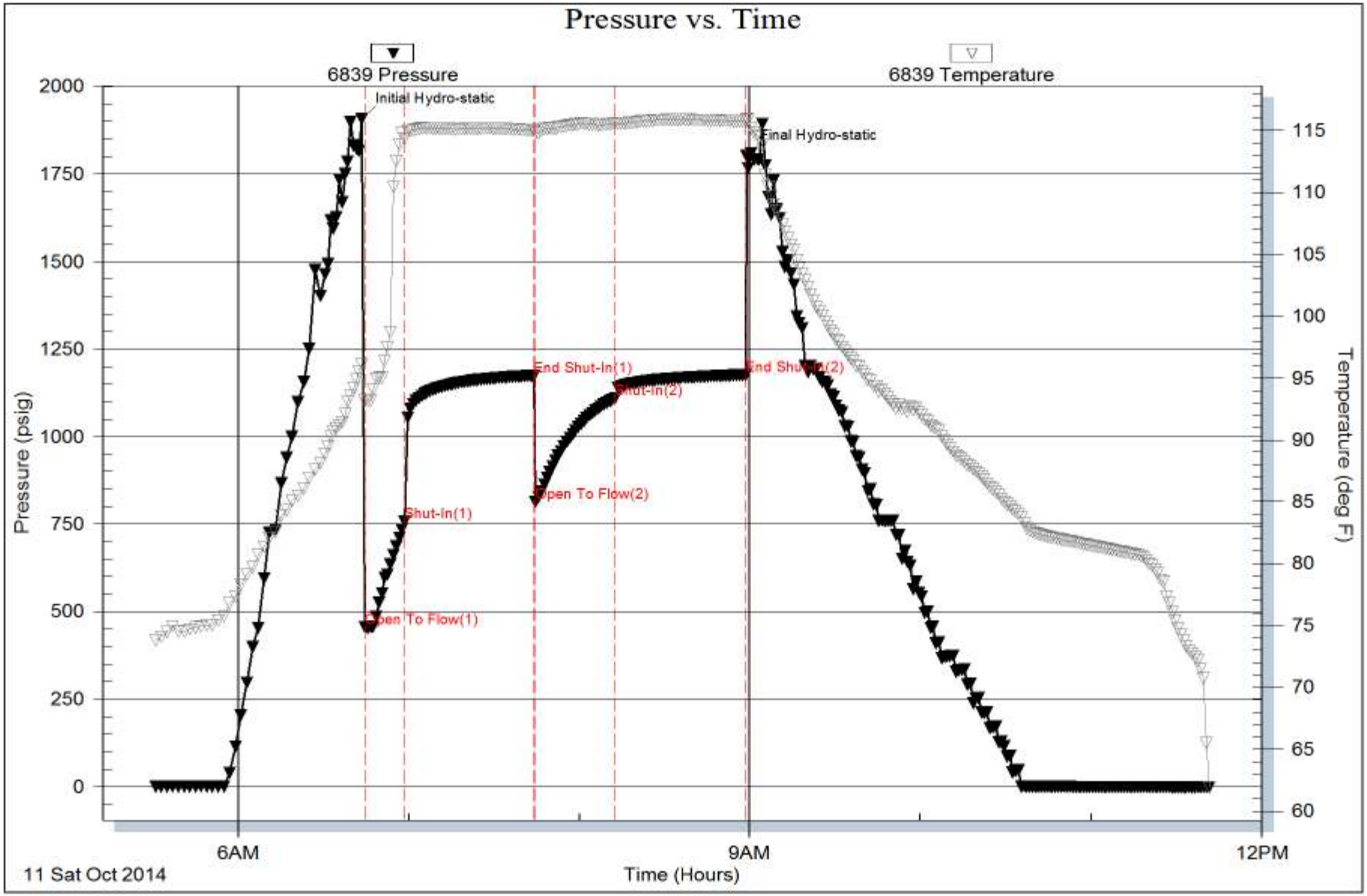
Recovery Table

Length ft	Description	Volume bbl
441.00	Muddy Water Water 50% Mud 50%	5.924
977.00	Gassy water cut muddy oil	13.705
0.00	Water 74% Gas 20% Mud 5% Oil 1%	0.000
882.00	Water 100%	12.372
0.00	440 Gas in pipe.	0.000

Total Length: 2300.00 ft Total Volume: 32.001 bbl

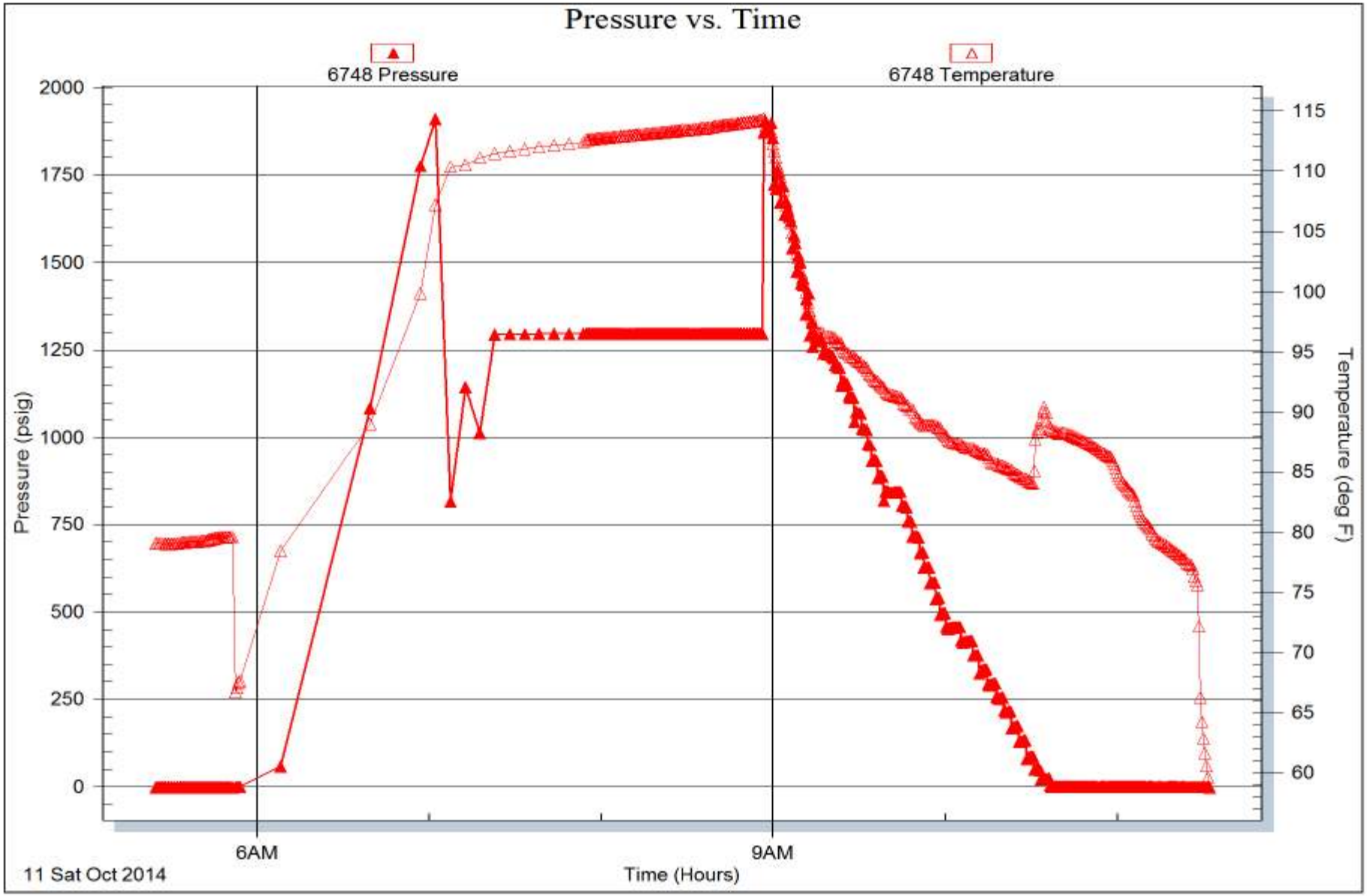
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 6839 **Outside** Southw ind Petroleum George #34-1 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 60276 Printed: 2014.10.15 @ 11:11:44

Serial #: 6748 Below (Straddle) Shawnee Petroleum George #34-1 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 60276 Printed: 2014.10.15 @ 11:11:45

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 60325

Well Name & No. George 34-1 Test No. 1 Date 10-10-14

Company Southwind Petroleum Elevation 2005 KB 2011 GL

Address 1400 West 14th Street Wichita Kansas 67203

Co. Rep / Geo. BOB Williams Rig Murfin Drilling #14

Location: Sec. 34 Twp. 19s Rge. 16w Co. Rush State KS

Interval Tested 3583-3605 Zone Tested Lansing H

Anchor Length 22 Drill Pipe Run 3547 Mud Wt. 8.8

Top Packer Depth 3578 Drill Collars Run 28.42 Vis 55

Bottom Packer Depth 3583 Wt. Pipe Run 20000 WL 8.8

Total Depth 3605 Chlorides 5000 ppm System LCM 1

Blow Description 1st open - Weak building blow built to 7 inches.
1st shut in - No blow back.
2nd open - Fair building blow built to bottom bucket in 24 minutes.
2nd shut in - Yes blow back.

Rec 257	Feet of water	%gas	%oil	100	%water	%mud
Rec 63	Feet of muddy water	%gas	%oil	95	%water 5	%mud
Rec	Feet of	%gas	%oil		%water	%mud
Rec	Feet of	%gas	%oil		%water	%mud
Rec	Feet of	%gas	%oil		%water	%mud

Rec Total 320 BHT Gravity API RW @ °F Chlorides ppm

(A) Initial Hydrostatic 1746	☐ Test 1150	T-On Location 12:45pm
(B) First Initial Flow 34	☒ Jars 250	T-Started 2:58pm
(C) First Final Flow 67	☒ Safety Joint 75	T-Open 4:17pm
(D) Initial Shut-In 1170	☐ Circ Sub	T-Pulled 7:17pm
(E) Second Initial Flow 74	☐ Hourly Standby	T-Out 8:55pm
(F) Second Final Flow 180	☐ Mileage ~~40~~ 62	Comments
(G) Final Shut-In 1103	☐ Sampler	
(H) Final Hydrostatic 1684	☐ Straddle	☐ Ruined Shale Packer
	☐ Shale Packer	☒ Ruined Packer 320
Initial Open 15	☐ Extra Packer	☐ Extra Copies
Initial Shut-In 45	☐ Extra Recorder	Sub Total 320
Final Flow 60	☐ Day Standby	Total 1857
Final Shut-In 60	☐ Accessibility	MP/DST Disc't
	Sub Total 1537	

Approved By Our Representative Dustin Ellis

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

4/10

Test Ticket

NO. 60276

Well Name & No. George 34-1 Test No. 2 Date 10-11-14

Company Southwind Petroleum Elevation 2005 KB 2011 GL

Address 1400 west 14th Street Wichita Kansas 67203

Co. Rep / Geo. BOB Williams Rig Murfin Rig 16

Location: Sec. 34 Twp. 19S Rge. 16W Co. Rush State KS

Interval Tested 3720 - 3740 Zone Tested Arbuckle

Anchor Length 20 Drill Pipe Run 3688 Mud Wt. 9.2

Top Packer Depth 3720 Drill Collars Run 28.76 Vis 54

Bottom Packer Depth 3740 Wt. Pipe Run 20,000 WL 8.0

Total Depth 3900 Chlorides 6000 ppm System LCM 8

Blow Description 1st open - strong blow blew off bottom bucket 1 minute.
1st shut in - Yes blow back
2nd open - strong blow blew off bottom bucket instantly.
2nd shut in - Yes blow back.

Rec 441	Feet of muddy water	%gas	%oil 50	%water 50	%mud
Rec 917	Feet of Gassy water cut muddy with	20 %gas	/ %oil 74	%water 5	%mud
Rec 882	Feet of Water	%gas	%oil 100	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 2300 BHT Gravity API RW @ °F Chlorides ppm

(A) Initial Hydrostatic 1906	☐ Test 1150	T-On Location
(B) First Initial Flow 455	☑ Jars 250	T-Started ~~6:57~~ 5:30pm
(C) First Final Flow 756	☑ Safety Joint 75	T-Open 6:57pm
(D) Initial Shut-In 1175	☐ Circ Sub	T-Pulled 9:12pm
(E) Second Initial Flow 812	☐ Hourly Standby	T-Out 12:00pm
(F) Second Final Flow 1110	☐ Mileage 40 62	Comments 440 ccs in pipe
(G) Final Shut-In 1176	☐ Sampler	
(H) Final Hydrostatic 1801	☑ Straddle 600	☐ Ruined Shale Packer
	☐ Shale Packer	☐ Ruined Packer
Initial Open 15	☑ Extra Packer 200	☐ Extra Copies
Initial Shut-In 45	☑ Extra Recorder 200	Sub Total 0
Final Flow 30	☐ Day Standby	Total 2537
Final Shut-In 45	☐ Accessibility	MP/DST Disc't
	Sub Total 2537	

Approved By Our Representative

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