



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1191917
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: _____

1191917

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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QUALITY WELL SERVICE, INC.

5914

Federal Tax I.D. # 481187368

Home Office 324 Simpson St., Pratt, KS 67124

Heath's Cell 620-727-3410
Office / Fax 620-672-3663

Rich's Cell 620-727-3409
Brady's Cell 620-727-6964

Date	7-11-13	Sec.	3	Twp.	17	Range	14	County	Barton	State	Ks	On Location	8:30 PM	Finish	12:45 AM	
Lease	Kingston	Well No.	#5			Location			231-4 Jct W W. Rd							
Contractor	NINNESCOH D2Lg							Owner								
Type Job	SURFACE							To Quality Well Service, 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" A		T.D.		440		Charge To									
Csg.	3 5/8		Depth		437.76		L & B Exploration									
Tbg. Size			Depth				Street									
Tool			Depth				City									
Cement Left in Csg.			Shoe Joint		20'		State									
Meas Line			Displace		26.74 Bbl		The above was done to satisfaction and supervision of owner agent or contractor.									
EQUIPMENT							Cement Amount Ordered									
							225 x 60/40 P02									
Pumptrk	No.	8		DEREK		Common		21 GEL 3% CC 1/4" CF								
Bulktrk	No.	10		M. ICE		135										
Bulktrk	No.					Poz. Mix		90								
Pickup	No.			TODD		Gel.		4								
JOB SERVICES & REMARKS							Calcium									
							3									
Rat Hole								Hulls								
Mouse Hole								Salt								
Centralizers								Flowseal								
Baskets								56.25 #								
D/V or Port Collar								Kol-Seal								
Ran 10	4 1/2's 3 5/8 23' Csg							Mud CLR 48								
set 2	438							CFL-117 or CD110 CAF 38								
HACKUP TO CSG & BREAK CIRC							Sand									
W/ RIG							Handling									
							237									
							Mileage									
							20									
MIX! Pump 225 x 60/40							FLOAT EQUIPMENT									
21 GEL 3% CC 1/4" CF.							Guide Shoe									
SHOT DOWN RELEASE PLUG							Centralizer									
Disp 26.74 Bbls total							Baskets									
250#							AFU Inserts									
CIRC CUT TO PIT							Float Shoe									
							Latch Down									
1 EA 3 5/8 WOODEN PLUG							Pumptrk Charge									
							SURFACE									
							Mileage									
							20									
THANKS TODD MIKE & DEREK							Tax									
							Discount									
PLEASE CALL AGAIN							Total Charge									
Signature																

ALLIED OIL & GAS SERVICES, LLC 060471

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT:
Great Bend

DATE <u>7-18-13</u>	SEC. <u>3</u>	TWP. <u>17</u>	RANGE <u>14</u>	CALLED OUT	ON LOCATION	JOB START <u>6:15 pm</u>	JOB FINISH <u>7:45 pm</u>
LEASE <u>Nintoo</u>		WELL # <u>5</u>	LOCATION <u>281/4 S North To 170</u>		COUNTY <u>Benton</u>	STATE <u>KS</u>	
OLD OR <input checked="" type="radio"/> NEW (Circle one)			RO <u>South To</u>				

CONTRACTOR N. N. Nescah
 TYPE OF JOB Pipe Job
 HOLE SIZE 7 1/4 TD 3520
 CASING SIZE 5 1/2 14" DEPTH 3495
 TUBING SIZE _____ DEPTH _____
 DRILL PIPE _____ DEPTH _____
 TOOL _____ DEPTH _____
 PRES. MAX 1000 MINIMUM _____
 MEAS. LINE _____ SHOE JOINT 42.10
 CEMENT LEFT IN CSG. 42
 PERFS. _____
 DISPLACEMENT 85 BBLs 2% Uch

OWNER L-B Exploration
 CEMENT
 AMOUNT ORDERED 150 SX ASC + 10% Salt + 6% Gyc seal + 2% Gel + 5# Wilcoite
PC SX 50 SX 60/40 + 4260 1/2
500 Gal #1 Uch 10 Gal Uch
 COMMON 30 @ 17.90 537.00
 POZMIX 20 @ 9.35 187.00
 GEL 1 @ 23.40 23.40
 CHLORIDE _____ @ _____ _____
 ASC 150 @ 20.90 3,135.00
Gils 750 @ .98 735.00
Super flush 12 BBLs @ 58.70 704.40
Uch 10 @ 34.40 344.00
 @ _____ _____
 @ _____ _____
 @ _____ _____
 @ _____ _____
 @ _____ _____
 HANDLING 298.94 @ 2.48 740.18
 MILEAGE 216.8 @ 2.60 561.60
 TOTAL 6,967.58

EQUIPMENT

PUMP TRUCK CEMENTER Wayne Davis
 # 597 HELPER Charles Kingon
 BULK TRUCK
 # 544/198 DRIVER Ben Newell
 BULK TRUCK
 # _____ DRIVER _____

REMARKS:

Pipe on Bottom Brake circulation with Rimud Drop Ball
Circulate Ball Thru Row 2 BBLs
Water ahead mix 12 BBLs flush
Plug Rat with 300X 60/40 + 2% Uch
Plug mouse with 200X Hook
Casing mix 150 SX ASC shut
Down wash pump and hives
Release plug start Dip with 2% Uch hand plug at top of

CHARGE TO: L-B Exploration
 STREET _____
 CITY _____ STATE _____ ZIP _____

SERVICE

DEPTH OF JOB 3495
 PUMP TRUCK CHARGE 2,558.75
 EXTRA FOOTAGE _____ @ _____ _____
 MILEAGE Hum 20 @ 7.70 154.00
 MANIFOLD _____ @ _____ _____
Hum 20 @ 4.40 88.00
 @ _____ _____
 TOTAL 2,800.75

PLUG & FLOAT EQUIPMENT

Latch Down Plug @ 166.25 166.25
8 Tubalizers @ 45.00 210.00
Atu float shoe @ 210.00 210.00
 @ _____ _____
 @ _____ _____
 TOTAL 586.00

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.

PRINTED NAME Michael Petermann
 SIGNATURE [Signature]

SALES TAX (If Any) _____
 TOTAL CHARGES 10,354.33
3,106.29
 DISCOUNT _____ IF PAID IN 30 DAYS
7,248.03



DRILL STEM TEST REPORT

Prepared For: **L B Exploration Inc**

2135 2nd Rd Holyrood KS 67450+9021

ATTN: Steven Petermann

Kingston #5

3-17-14w Barton

Start Date: 2013.07.14 @ 23:15:00

End Date: 2013.07.15 @ 06:55:30

Job Ticket #: 17008 DST #: 1

Superior Testers Enterprises LLC
PO Box 138 Great Bend KS 67530
1-800-792-6902

Printed: 2013.07.15 @ 07:13:07

L B Exploration Inc
3-17-14w Barton
Kingston #5
DST # 1
Lansing "A-B"
2013.07.14



DRILL STEM TEST REPORT

L B Exploration Inc
 2135 2nd Rd Holyrood KS 67450+9021
 ATTN: Steven Petermann

3-17-14w Barton
Kingston #5
 Job Ticket: 17008 **DST#: 1**
 Test Start: 2013.07.14 @ 23:15:00

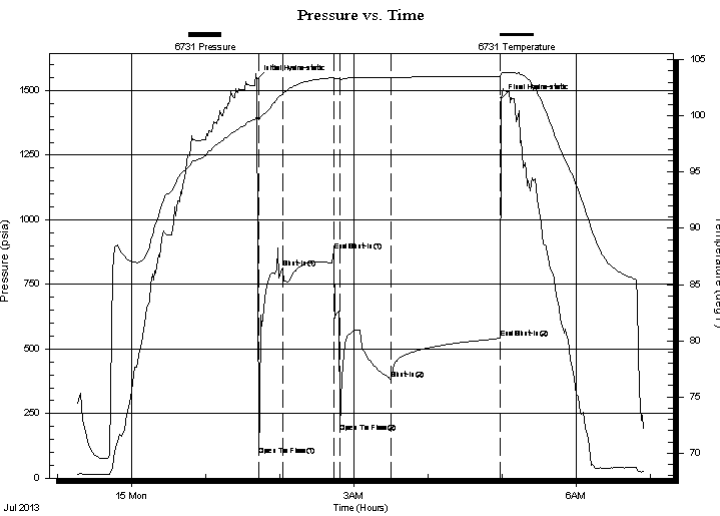
GENERAL INFORMATION:

Formation: **Lansing "A-B"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 01:42:30
 Time Test Ended: 06:55:30
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Jared Scheck
 Unit No: 3320-Great Bend-
 Interval: **3202.00 ft (KB) To 3234.00 ft (KB) (TVD)**
 Total Depth: 3234.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Poor
 Reference Elevations: 1965.00 ft (KB)
 1955.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 6731

Press@RunDepth: 383.95 psia @ ft (KB) Capacity: 5000.00 psia
 Start Date: 2013.07.14 End Date: 2013.07.15 Last Calib.: 2013.07.15
 Start Time: 23:15:00 End Time: 06:55:30 Time On Btm: 2013.07.15 @ 01:41:30
 Time Off Btm: 2013.07.15 @ 04:59:30

TEST COMMENT: 1st Opening 20 Minutes-Fair blow built 1 inch from bottom of bucket in 20 minutes tool chased 10 feet
 1st Shut-in 40 Minutes-No blow back
 2nd Opening 45 Minutes-Very weak surge flushed tool good surge built 5 inches into bucket water in 45 minutes
 2nd Shut-in 90 Minutes-No blow back



PRESSURE SUMMARY

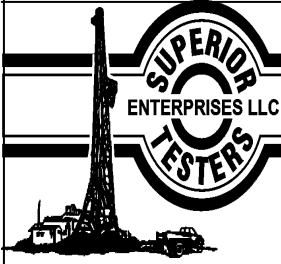
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1543.85	99.93	Initial Hydro-static
1	88.88	99.64	Open To Flow (1)
21	812.00	101.96	Shut-In(1)
62	880.77	103.42	End Shut-In(1)
67	178.97	103.22	Open To Flow (2)
108	383.95	103.41	Shut-In(2)
197	541.04	103.53	End Shut-In(2)
198	1469.55	103.81	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	gas oil cut mud 10%g 10%o 80%m	0.42
60.00	oil cut mud 10%oil 90%mud	0.84
0.00	30 feet gad in pipe	0.00
0.00	ruined packer	0.00

Gas Rates

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



DRILL STEM TEST REPORT

L B Exploration Inc
 2135 2nd Rd Holyrood KS 67450+9021
 ATTN: Steven Petermann

3-17-14w Barton
Kingston #5
 Job Ticket: 17008 **DST#: 1**
 Test Start: 2013.07.14 @ 23:15:00

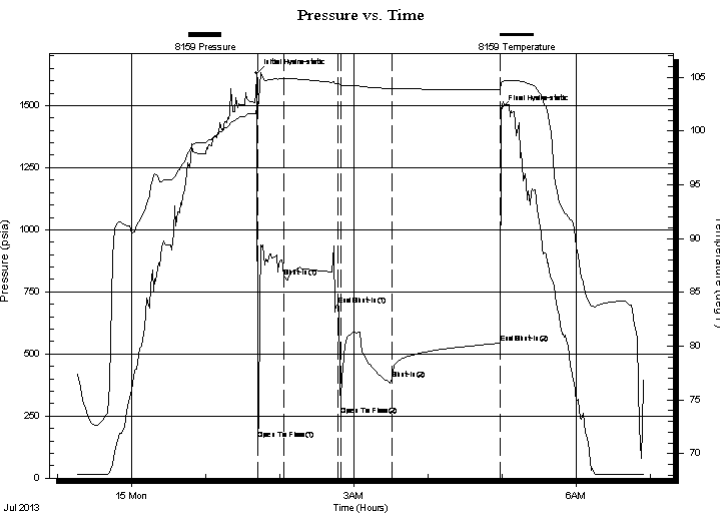
GENERAL INFORMATION:

Formation: **Lansing "A-B"**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 01:42:30 Tester: Jared Scheck
 Time Test Ended: 06:55:30 Unit No: 3320-Great Bend-
 Interval: **3202.00 ft (KB) To 3234.00 ft (KB) (TVD)** Reference Elevations: 1965.00 ft (KB)
 Total Depth: 3234.00 ft (KB) (TVD) 1955.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Poor KB to GR/CF: 10.00 ft

Serial #: 8159

Press@RunDepth: 543.70 psia @ ft (KB) Capacity: 5000.00 psia
 Start Date: 2013.07.14 End Date: 2013.07.15 Last Calib.: 2013.07.15
 Start Time: 23:15:00 End Time: 06:56:00 Time On Btm: 2013.07.15 @ 01:41:00
 Time Off Btm: 2013.07.15 @ 04:59:30

TEST COMMENT: 1st Opening 20 Minutes-Fair blow built 1 inch from bottom of bucket in 20 minutes tool chased 10 feet
 1st Shut-in 40 Minutes-No blow back
 2nd Opening 45 Minutes-Very weak surge flushed tool good surge built 5 inches into bucket water in 45 minutes
 2nd Shut-in 90 Minutes-No blow back



PRESSURE SUMMARY

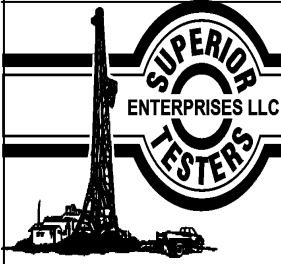
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1630.50	102.25	Initial Hydro-static
1	156.00	102.19	Open To Flow (1)
22	811.40	104.88	Shut-In(1)
66	696.04	104.43	End Shut-In(1)
68	253.95	104.28	Open To Flow (2)
110	398.99	103.95	Shut-In(2)
198	543.70	103.86	End Shut-In(2)
199	1485.60	104.50	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	gas oil cut mud 10%g 10%o 80%m	0.42
60.00	oil cut mud 10%oil 90%mud	0.84
0.00	30 feet gad in pipe	0.00
0.00	ruined packer	0.00

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

L B Exploration Inc
 2135 2nd Rd Holyrood KS 67450+9021
 ATTN: Steven Petermann

3-17-14w Barton
Kingston #5
 Job Ticket: 17008 **DST#: 1**
 Test Start: 2013.07.14 @ 23:15:00

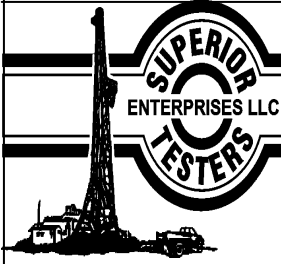
Tool Information

Drill Pipe:	Length: 3190.00 ft	Diameter: 3.80 inches	Volume: 44.75 bbl	Tool Weight:	1000.00 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	75000.00 lb
			<u>Total Volume: 44.75 bbl</u>	Tool Chased	10.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial	43000.00 lb
Depth to Top Packer:	3202.00 ft			Final	46000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	32.00 ft				
Tool Length:	52.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments: Tool chased 10 feet to bottom / Flushed tool on 2 nd open / Ruined packer

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			3187.00	
Hydraulic Tool	5.00			3192.00	
Packer	5.00			3197.00	20.00 Bottom Of Top Packer
Packer	5.00			3202.00	
Anchor	27.00			3229.00	
Recorder	1.00	6731	Inside	3230.00	
Recorder	1.00	8159	Outside	3231.00	
Bullnose	3.00			3234.00	32.00 Bottom Packers & Anchor

Total Tool Length: 52.00



DRILL STEM TEST REPORT

FLUID SUMMARY

L B Exploration Inc
 2135 2nd Rd Holyrood KS 67450+9021
 ATTN: Steven Petermann

3-17-14w Barton
Kingston #5
 Job Ticket: 17008 **DST#: 1**
 Test Start: 2013.07.14 @ 23:15:00

Mud and Cushion Information

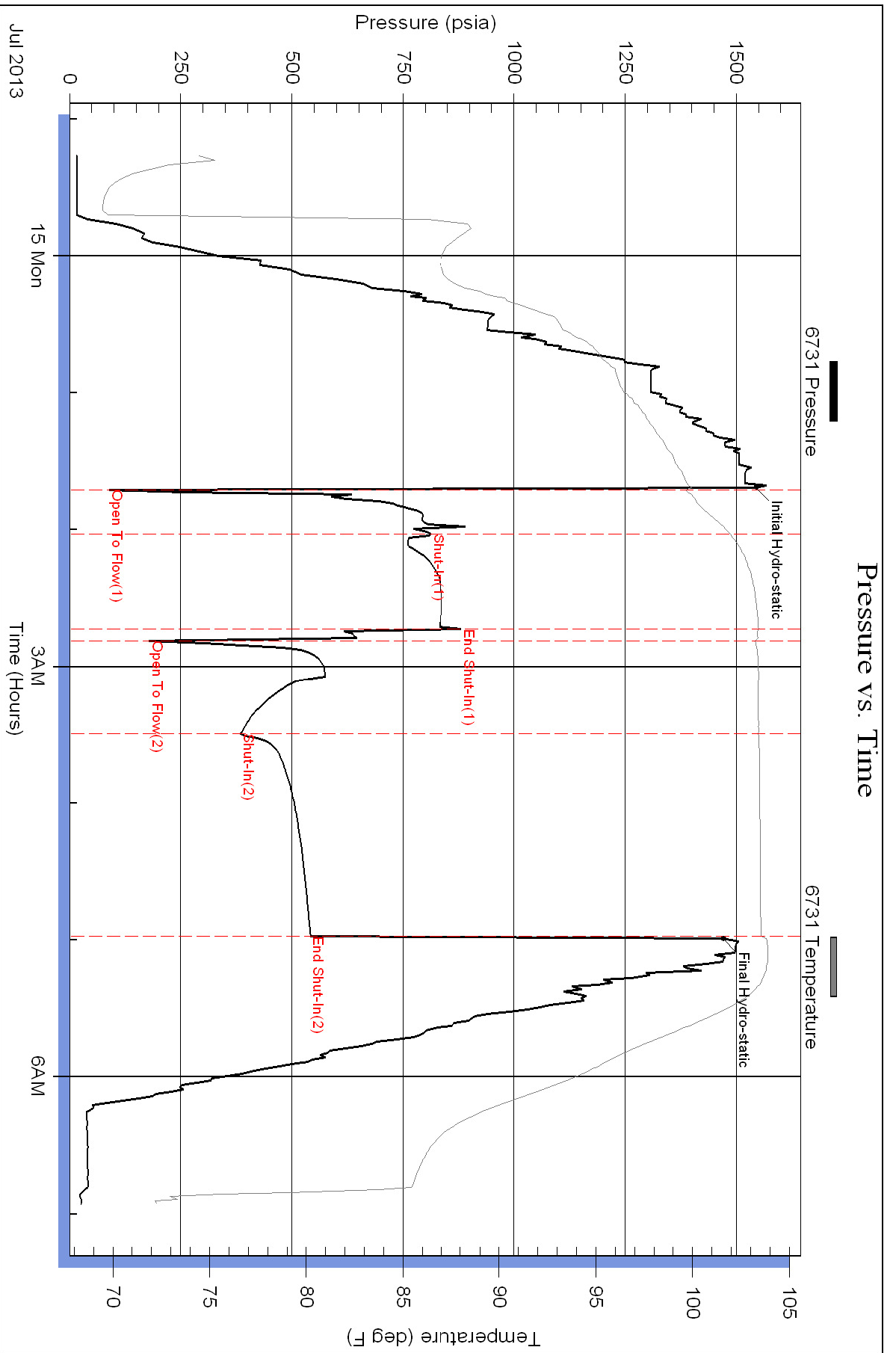
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 54.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.80 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 800.00 ppm			
Filter Cake: 1.00 inches			

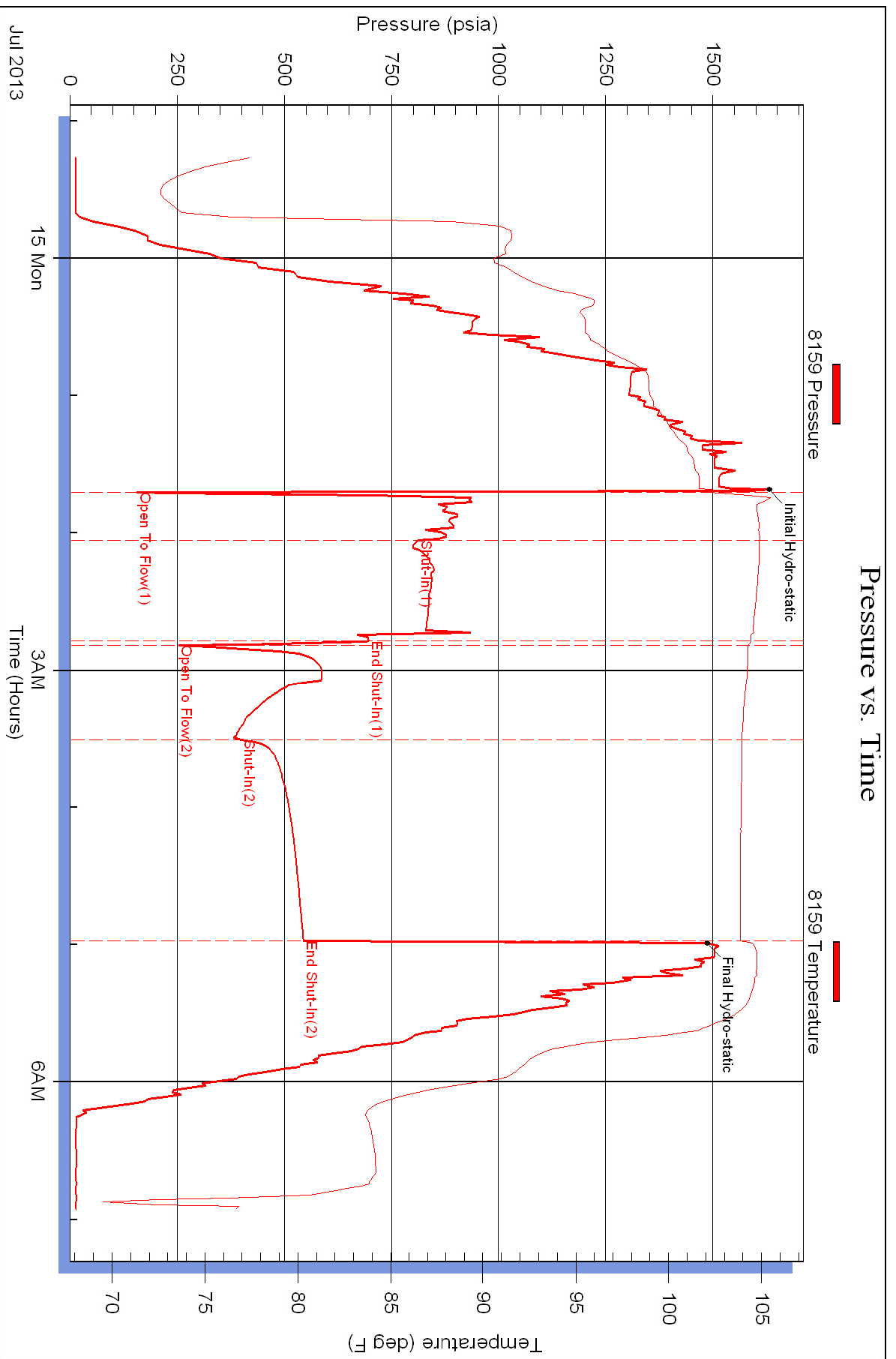
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	gas oil cut mud 10%g 10%o 80%m	0.421
60.00	oil cut mud 10%oil 90%mud	0.842
0.00	30 feet gad in pipe	0.000
0.00	ruined packer	0.000

Total Length: 90.00 ft Total Volume: 1.263 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: Chased tool 10 feet to bottom / Flushed tool 2nd open/Ruined packer







DRILL STEM TEST REPORT

Prepared For: **L B Exploration Inc**

2135 2nd Rd Holyrood KS 67450+9021

ATTN: Steven Petermann

Kingston #5

3-17-14w Barton

Start Date: 2013.07.15 @ 15:15:00

End Date: 2013.07.15 @ 19:46:30

Job Ticket #: 17009 DST #: 2

Superior Testers Enterprises LLC
PO Box 138 Great Bend KS 67530
1-800-792-6902

Printed: 2013.07.15 @ 20:03:01



DRILL STEM TEST REPORT

L B Exploration Inc
 2135 2nd Rd Holyrood KS 67450+9021
 ATTN: Steven Petermann

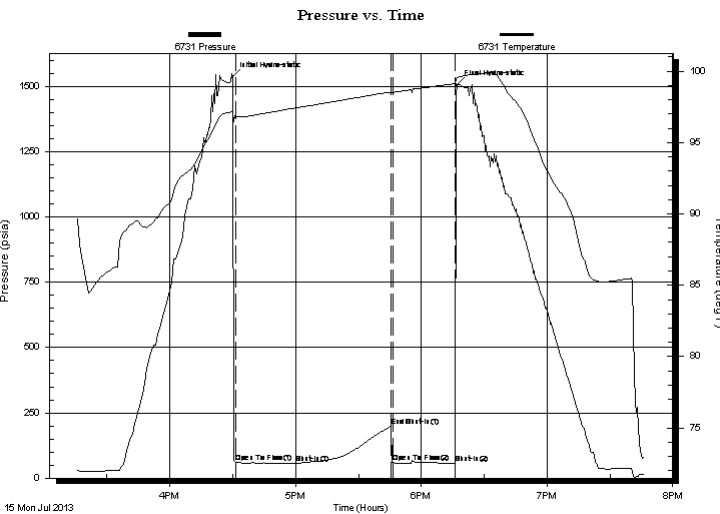
3-17-14w Barton
Kingston #5
 Job Ticket: 17009 **DST#:2**
 Test Start: 2013.07.15 @ 15:15:00

GENERAL INFORMATION:

Formation: **Lansing E- F**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 16:31:30
 Time Test Ended: 19:46:30
 Interval: **3252.00 ft (KB) To 3285.00 ft (KB) (TVD)**
 Total Depth: 3285.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Jared Scheck
 Unit No: 3320-Great Bend-
 Reference Elevations: 1965.00 ft (KB)
 1955.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 6731 Inside
 Press@RunDepth: 58.02 psia @ 3281.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2013.07.15 End Date: 2013.07.15 Last Calib.: 2013.07.15
 Start Time: 15:15:00 End Time: 19:46:30 Time On Btm: 2013.07.15 @ 16:30:00
 Time Off Btm: 2013.07.15 @ 18:17:00

TEST COMMENT: 1st Opening 30 Minutes-Very weak surface blow built 1/4 inch into bucket w ater in 30 minutes
 1st Shut-in 45 Minutes-No blow back
 2nd Opening 15 Minutes-Very weak surge did not build pulled tool



PRESSURE SUMMARY

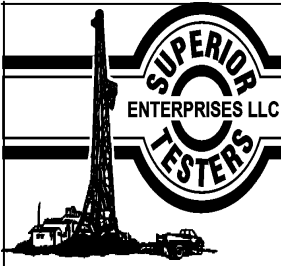
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1535.97	97.18	Initial Hydro-static
2	61.69	96.84	Open To Flow (1)
30	58.02	97.42	Shut-In(1)
76	199.16	98.54	End Shut-In(1)
77	58.92	98.53	Open To Flow (2)
106	58.33	99.13	Shut-In(2)
107	1505.49	99.53	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
6.00	mud	0.08

Gas Rates

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



DRILL STEM TEST REPORT

L B Exploration Inc
 2135 2nd Rd Holyrood KS 67450+9021
 ATTN: Steven Petermann

3-17-14w Barton
Kingston #5
 Job Ticket: 17009 **DST#:2**
 Test Start: 2013.07.15 @ 15:15:00

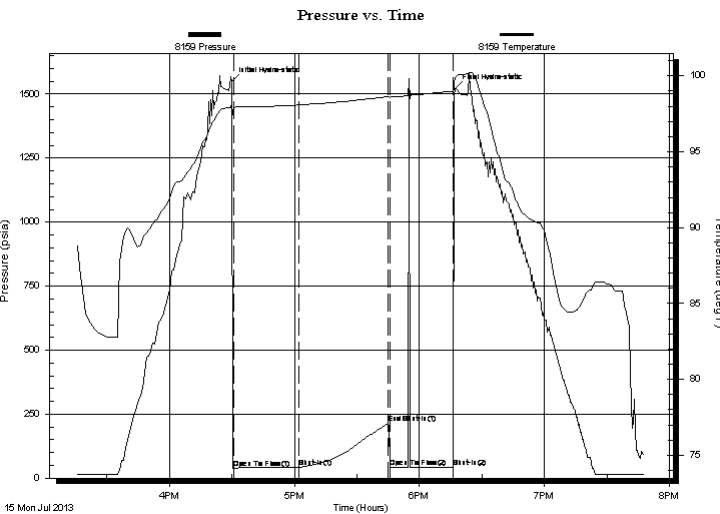
GENERAL INFORMATION:

Formation: **Lansing E- F**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 16:31:30 Tester: Jared Scheck
 Time Test Ended: 19:46:30 Unit No: 3320-Great Bend-
 Interval: **3252.00 ft (KB) To 3285.00 ft (KB) (TVD)** Reference Elevations: 1965.00 ft (KB)
 Total Depth: 3285.00 ft (KB) (TVD) 1955.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 10.00 ft

Serial #: 8159

Press@RunDepth: 212.98 psia @ ft (KB) Capacity: 5000.00 psia
 Start Date: 2013.07.15 End Date: 2013.07.15 Last Calib.: 2013.07.15
 Start Time: 15:15:00 End Time: 19:48:00 Time On Btm: 2013.07.15 @ 16:30:00
 Time Off Btm: 2013.07.15 @ 18:17:00

TEST COMMENT: 1st Opening 30 Minutes-Very weak surface blow built 1/4 inch into bucket w water in 30 minutes
 1st Shut-in 45 Minutes-No blow back
 2nd Opening 15 Minutes-Very weak surge did not build pulled tool



PRESSURE SUMMARY

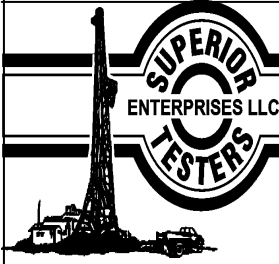
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1549.93	98.15	Initial Hydro-static
1	39.83	97.92	Open To Flow (1)
32	41.65	98.08	Shut-In(1)
75	212.98	98.63	End Shut-In(1)
76	41.48	98.60	Open To Flow (2)
106	43.38	99.01	Shut-In(2)
107	1520.31	99.89	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
6.00	mud	0.08

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

L B Exploration Inc
 2135 2nd Rd Holyrood KS 67450+9021
 ATTN: Steven Petermann

3-17-14w Barton
Kingston #5
 Job Ticket: 17009 **DST#:2**
 Test Start: 2013.07.15 @ 15:15:00

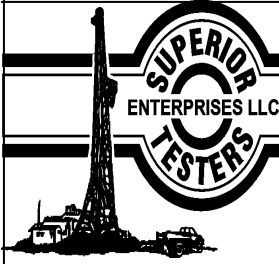
Tool Information

Drill Pipe:	Length: 3252.00 ft	Diameter: 3.80 inches	Volume: 45.62 bbl	Tool Weight:	1000.00 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	60000.00 lb
			<u>Total Volume: 45.62 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial	48000.00 lb
Depth to Top Packer:	3252.00 ft			Final	48000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	33.00 ft				
Tool Length:	53.00 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			3237.00	
Hydraulic Tool	5.00			3242.00	
Packer	5.00			3247.00	20.00 Bottom Of Top Packer
Packer	5.00			3252.00	
Anchor	28.00			3280.00	
Recorder	1.00	6731	Inside	3281.00	
Recorder	1.00	8156	Outside	3282.00	
Bullnose	3.00			3285.00	33.00 Bottom Packers & Anchor

Total Tool Length: 53.00



DRILL STEM TEST REPORT

FLUID SUMMARY

L B Exploration Inc
2135 2nd Rd Holyrood KS 67450+9021
ATTN: Steven Petermann

3-17-14w Barton
Kingston #5
Job Ticket: 17009 **DST#:2**
Test Start: 2013.07.15 @ 15:15:00

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: 51.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.20 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 3000.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
6.00	mud	0.084

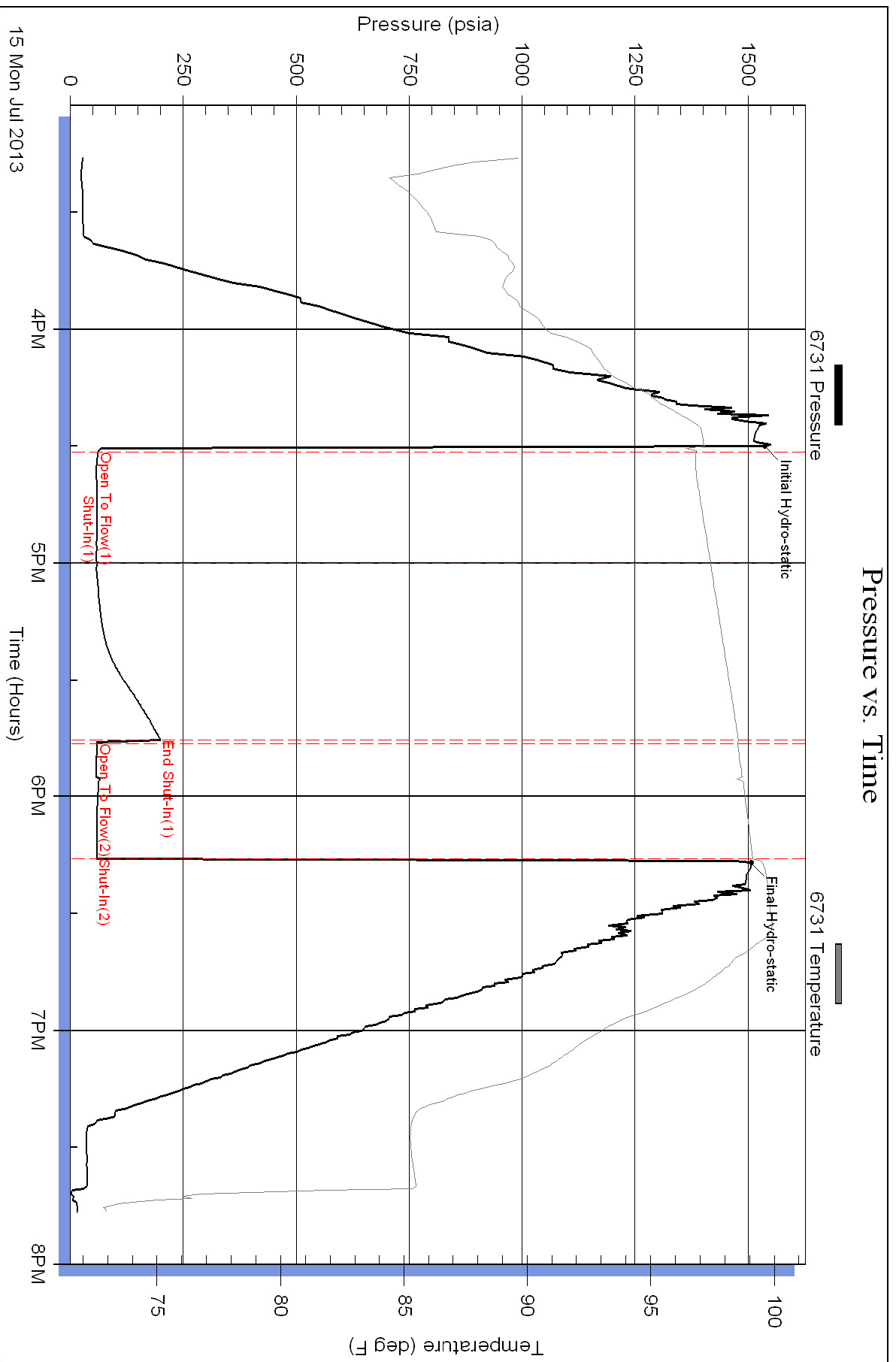
Total Length: 6.00 ft Total Volume: 0.084 bbl

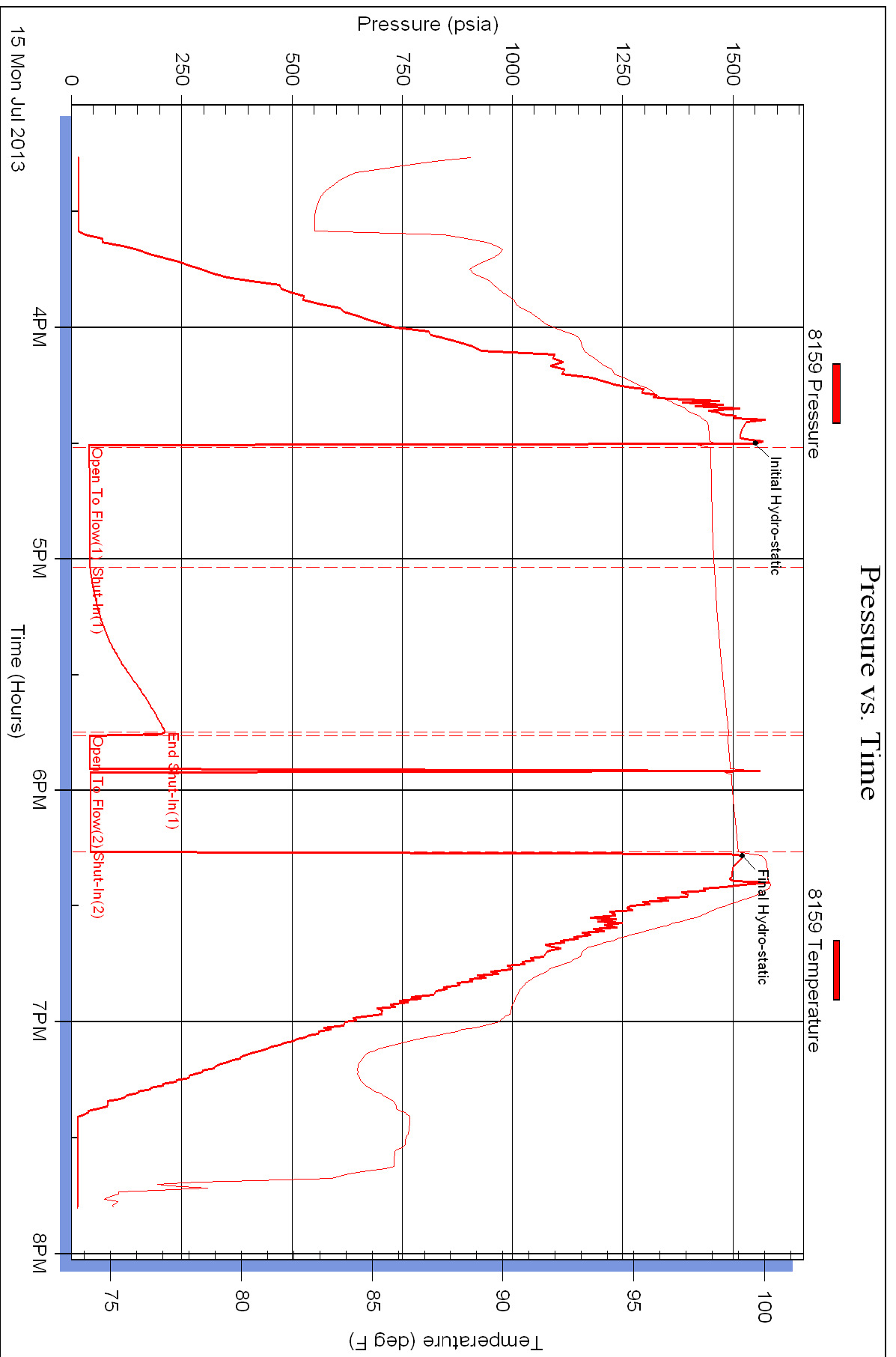
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

Pressure vs. Time







DRILL STEM TEST REPORT

Prepared For: **L B Exploration Inc**

2135 2nd Rd Holyrood KS 67450+9021

ATTN: Steven Petermann

Kingston #5

3-17-14w Barton

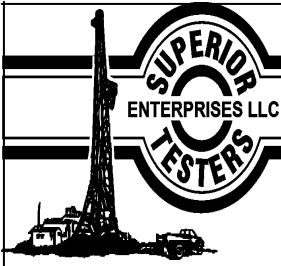
Start Date: 2013.07.17 @ 01:15:00

End Date: 2013.07.17 @ 07:32:00

Job Ticket #: 17011 DST #: 4

Superior Testers Enterprises LLC
PO Box 138 Great Bend KS 67530
1-800-792-6902

Printed: 2013.07.17 @ 08:13:15



DRILL STEM TEST REPORT

L B Exploration Inc
 2135 2nd Rd Holyrood KS 67450+9021
 ATTN: Steven Petermann

3-17-14w Barton
Kingston #5
 Job Ticket: 17011 **DST#: 4**
 Test Start: 2013.07.17 @ 01:15:00

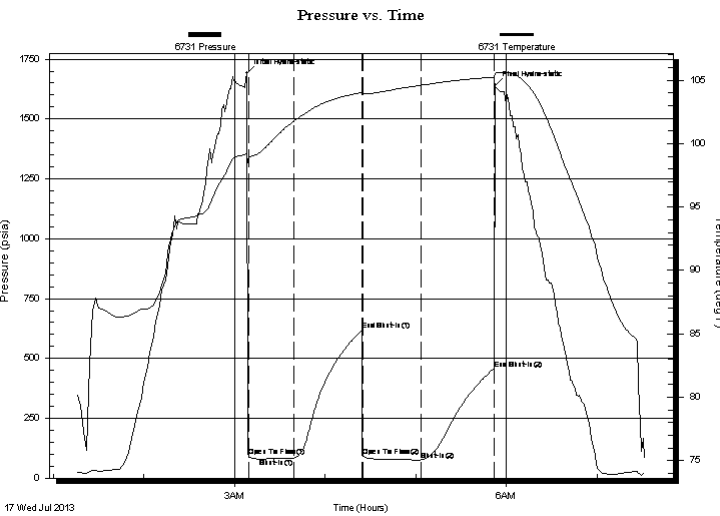
GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 03:09:00 Tester: Jared Scheck
 Time Test Ended: 07:32:00 Unit No: 3320-Great Bend
 Interval: **3389.00 ft (KB) To 3462.00 ft (KB) (TVD)** Reference Elevations: 1965.00 ft (KB)
 Total Depth: 3462.00 ft (KB) (TVD) 1955.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Poor KB to GR/CF: 10.00 ft

Serial #: 6731

Press@RunDepth: 76.51 psia @ ft (KB) Capacity: 5000.00 psia
 Start Date: 2013.07.17 End Date: 2013.07.17 Last Calib.: 2013.07.17
 Start Time: 01:15:00 End Time: 07:32:00 Time On Btm: 2013.07.17 @ 03:08:00
 Time Off Btm: 2013.07.17 @ 05:52:30

TEST COMMENT: 1st Opening 30 Minutes-Weak blow built 1 1/2 inches into bucket w ater in 30 minutes
 1st Shut-in 45 Minutes-No blow back
 2nd Opening 45 Minutes-Very weak blow built 1/4 inch into bucket w ater in 45 minutes
 2nd Shut-in 45 Minutes-No blow back



PRESSURE SUMMARY

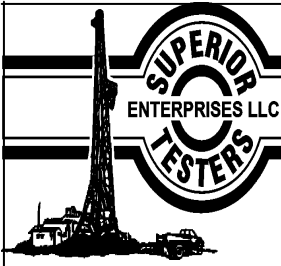
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1691.46	99.22	Initial Hydro-static
1	89.97	98.98	Open To Flow (1)
31	81.61	101.75	Shut-In(1)
76	616.61	104.02	End Shut-In(1)
77	90.71	103.91	Open To Flow (2)
116	76.51	104.61	Shut-In(2)
164	456.64	105.23	End Shut-In(2)
165	1640.43	105.56	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
25.00	oil cut mud 10%oil 90%mud	0.35
1.00	clean oil	0.01

Gas Rates

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



DRILL STEM TEST REPORT

L B Exploration Inc
 2135 2nd Rd Holyrood KS 67450+9021
 ATTN: Steven Petermann

3-17-14w Barton
Kingston #5
 Job Ticket: 17011 **DST#: 4**
 Test Start: 2013.07.17 @ 01:15:00

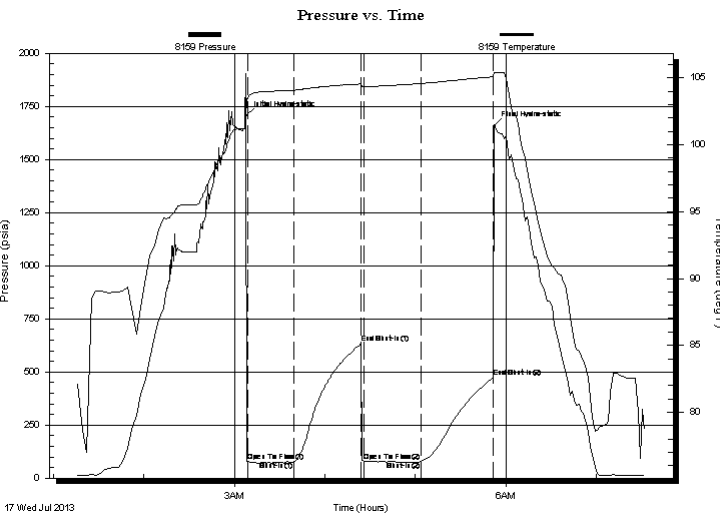
GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 03:09:00 Tester: Jared Scheck
 Time Test Ended: 07:32:00 Unit No: 3320-Great Bend
 Interval: **3389.00 ft (KB) To 3462.00 ft (KB) (TVD)** Reference Elevations: 1965.00 ft (KB)
 Total Depth: 3462.00 ft (KB) (TVD) 1955.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Poor KB to GR/CF: 10.00 ft

Serial #: 8159

Press@RunDepth: 474.72 psia @ ft (KB) Capacity: 5000.00 psia
 Start Date: 2013.07.17 End Date: 2013.07.17 Last Calib.: 2013.07.17
 Start Time: 01:15:00 End Time: 07:32:00 Time On Btm: 2013.07.17 @ 03:07:50
 Time Off Btm: 2013.07.17 @ 05:52:30

TEST COMMENT: 1st Opening 30 Minutes-Weak blow built 1 1/2 inches into bucket w ater in 30 minutes
 1st Shut-in 45 Minutes-No blow back
 2nd Opening 45 Minutes-Very weak blow built 1/4 inch into bucket w ater in 45 minutes
 2nd Shut-in 45 Minutes-No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1704.34	102.61	Initial Hydro-static
1	81.14	103.41	Open To Flow (1)
32	77.53	104.08	Shut-In(1)
77	634.04	104.55	End Shut-In(1)
79	81.26	104.36	Open To Flow (2)
116	77.05	104.58	Shut-In(2)
164	474.72	105.08	End Shut-In(2)
165	1658.19	105.41	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
25.00	oil cut mud 10%oil 90%mud	0.35
1.00	clean oil	0.01

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

L B Exploration Inc
 2135 2nd Rd Holyrood KS 67450+9021
 ATTN: Steven Petermann

3-17-14w Barton
Kingston #5
 Job Ticket: 17011 **DST#: 4**
 Test Start: 2013.07.17 @ 01:15:00

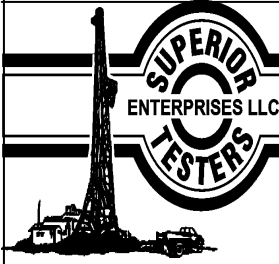
Tool Information

Drill Pipe:	Length: 3379.00 ft	Diameter: 3.80 inches	Volume: 47.40 bbl	Tool Weight: 1000.00 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: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 47.40 bbl</u>	Tool Chased 4.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3389.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	73.00 ft			
Tool Length:	93.00 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			3374.00	
Hydraulic Tool	5.00			3379.00	
Packer	5.00			3384.00	20.00 Bottom Of Top Packer
Packer	5.00			3389.00	
Anchor	0.00			3389.00	
Change Over Sub	0.75			3389.75	
Drill Pipe	31.50			3421.25	
Change Over Sub	0.75			3422.00	
Anchor	35.00			3457.00	
Recorder	1.00	6731	Inside	3458.00	
Recorder	1.00	8159	Outside	3459.00	
Bullnose	3.00			3462.00	73.00 Bottom Packers & Anchor

Total Tool Length: 93.00



DRILL STEM TEST REPORT

FLUID SUMMARY

L B Exploration Inc
2135 2nd Rd Holyrood KS 67450+9021
ATTN: Steven Petermann

3-17-14w Barton
Kingston #5
Job Ticket: 17011 **DST#: 4**
Test Start: 2013.07.17 @ 01:15:00

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: 8.00 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 4000.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

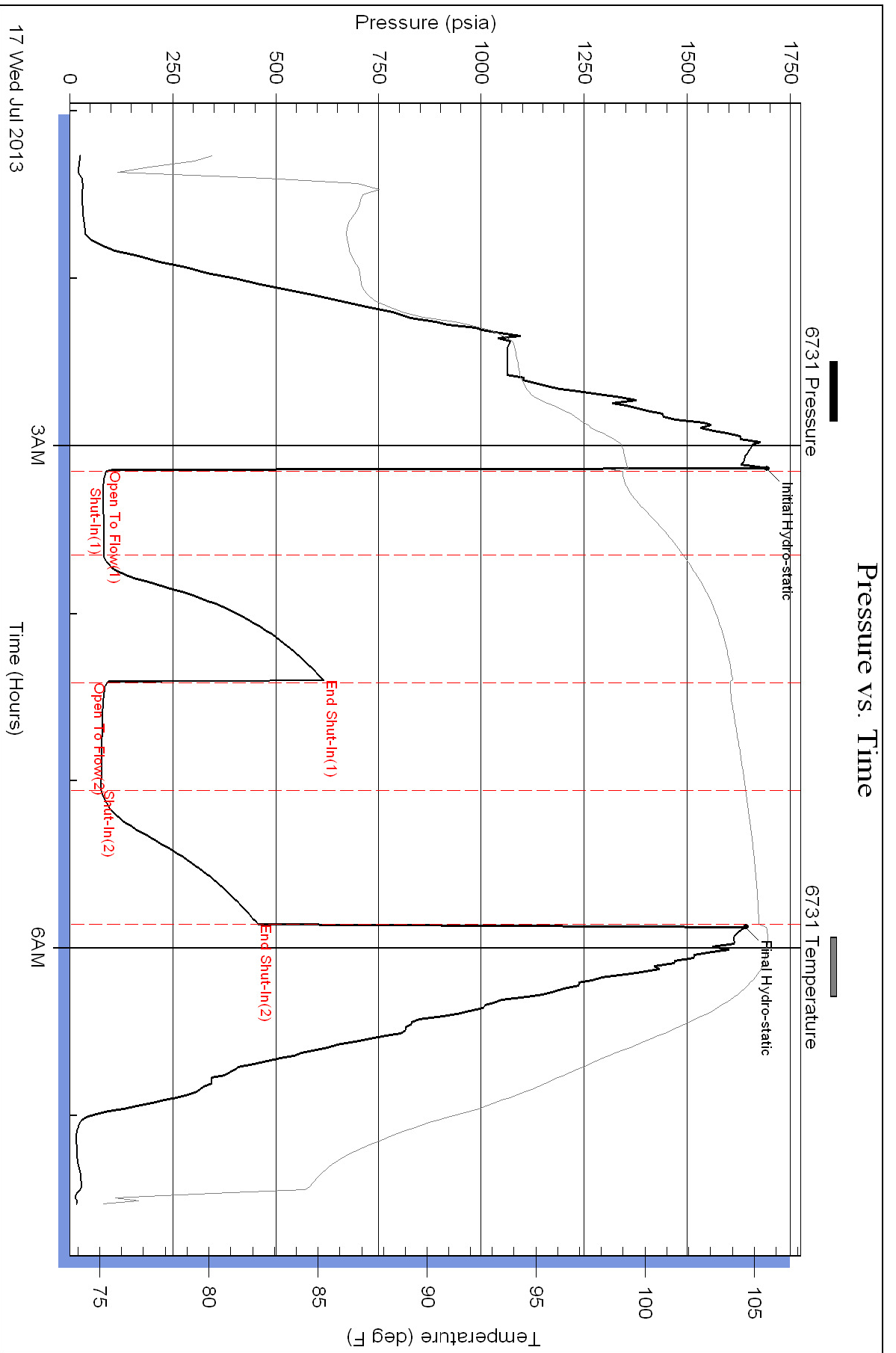
Length ft	Description	Volume bbl
25.00	oil cut mud 10%oil 90%mud	0.351
1.00	clean oil	0.014

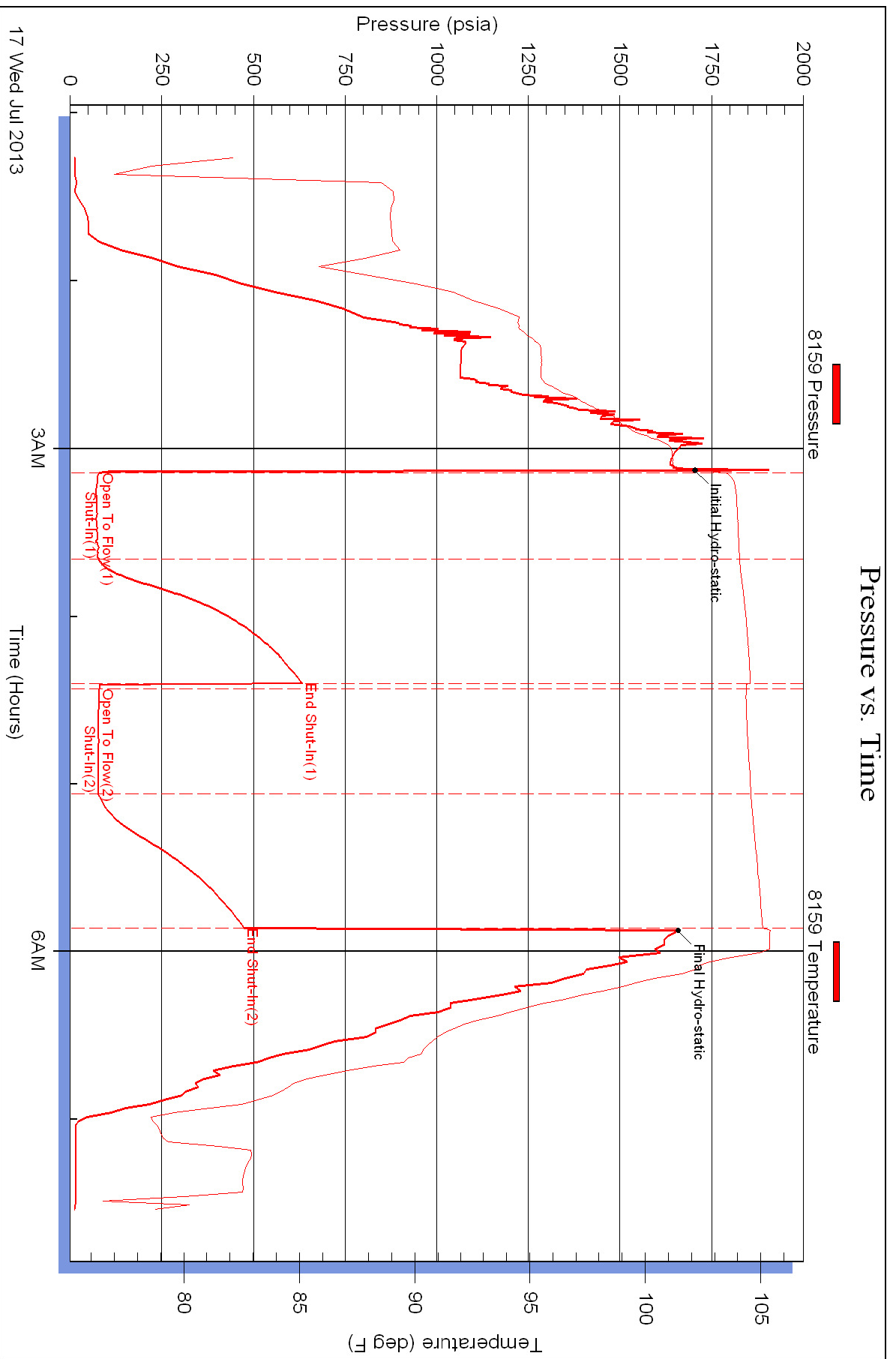
Total Length: 26.00 ft Total Volume: 0.365 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **L B Exploration Inc**

2135 2nd Rd Holyrood KS 67450+9021

ATTN: Steven Petermann

Kingston #5

3-17-14w Barton

Start Date: 2013.07.17 @ 13:15:00

End Date: 2013.07.17 @ 17:47:00

Job Ticket #: 17012 DST #: 5

Superior Testers Enterprises LLC
PO Box 138 Great Bend KS 67530
1-800-792-6902

Printed: 2013.07.17 @ 18:11:51



DRILL STEM TEST REPORT

L B Exploration Inc
 2135 2nd Rd Holyrood KS 67450+9021
 ATTN: Steven Petermann

3-17-14w Barton
Kingston #5
 Job Ticket: 17012 **DST#: 5**
 Test Start: 2013.07.17 @ 13:15:00

GENERAL INFORMATION:

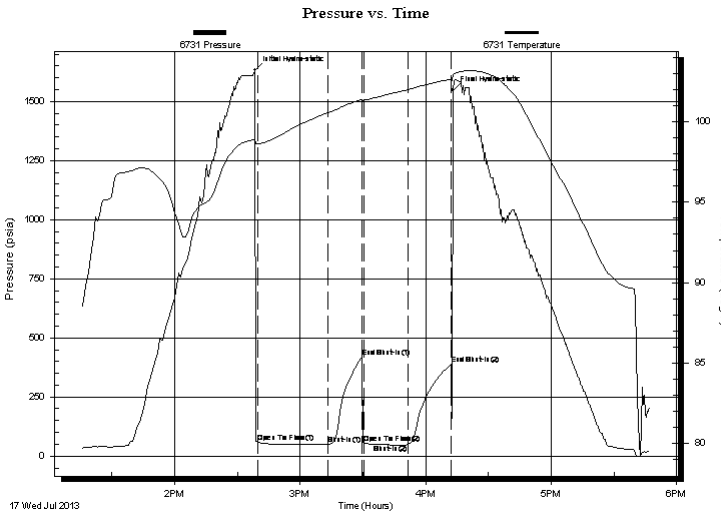
Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 14:39:30
 Time Test Ended: 17:47:00
 Interval: **3455.00 ft (KB) To 3467.00 ft (KB) (TVD)**
 Total Depth: 3467.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Jared Scheck
 Unit No: 3320 Great Bend-
 Reference Elevations: 1965.00 ft (KB)
 1955.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 6731

Press@RunDepth: 49.79 psia @ ft (KB) Capacity: 5000.00 psia
 Start Date: 2013.07.17 End Date: 2013.07.17 Last Calib.: 2013.07.17
 Start Time: 13:15:00 End Time: 17:47:00 Time On Btm: 2013.07.17 @ 14:38:30
 Time Off Btm: 2013.07.17 @ 16:13:00

TEST COMMENT: 1st Opening 30 Minutes-Weak blow built 1/4 inch into bucket w ater in 30 minutes
 1st Shut-in 20 Minutes-No blow back
 2nd Opening 20 Minutes-Very w eak surge did not build
 2nd Shut-in 20 Minutes-No blow back

PRESSURE SUMMARY



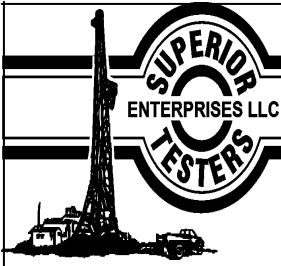
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1631.14	98.96	Initial Hydro-static
1	59.78	98.63	Open To Flow (1)
35	49.45	100.55	Shut-In(1)
51	419.39	101.39	End Shut-In(1)
52	55.35	101.33	Open To Flow (2)
73	49.79	101.99	Shut-In(2)
94	388.19	102.63	End Shut-In(2)
95	1547.11	102.94	Final Hydro-static

Recovery

Gas Rates

Length (ft)	Description	Volume (bbl)
10.00	spot oil cut mud 1% oil 99% mud	0.14

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



DRILL STEM TEST REPORT

L B Exploration Inc
 2135 2nd Rd Holyrood KS 67450+9021
 ATTN: Steven Petermann

3-17-14w Barton
Kingston #5
 Job Ticket: 17012 **DST#: 5**
 Test Start: 2013.07.17 @ 13:15:00

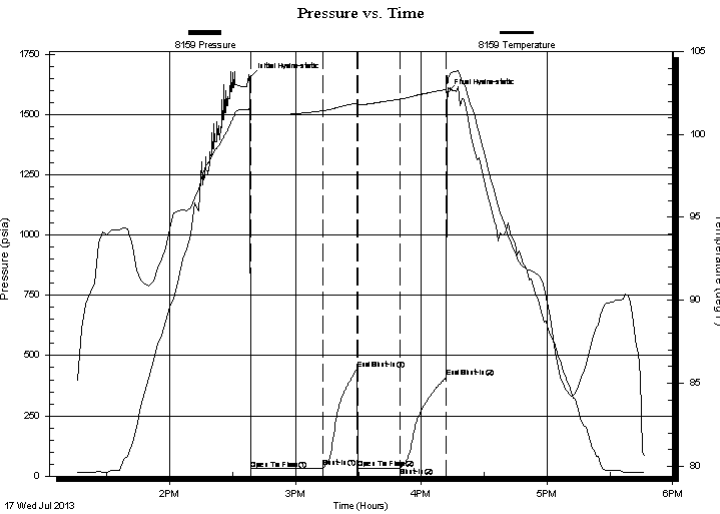
GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 14:39:30
 Time Test Ended: 17:47:00
 Interval: **3455.00 ft (KB) To 3467.00 ft (KB) (TVD)**
 Total Depth: 3467.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Jared Scheck
 Unit No: 3320 Great Bend-
 Reference Elevations: 1965.00 ft (KB)
 1955.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 8159

Press@RunDepth: 410.56 psia @ ft (KB) Capacity: 5000.00 psia
 Start Date: 2013.07.17 End Date: 2013.07.17 Last Calib.: 2013.07.17
 Start Time: 13:15:00 End Time: 17:47:00 Time On Btm: 2013.07.17 @ 14:38:20
 Time Off Btm: 2013.07.17 @ 16:12:20

TEST COMMENT: 1st Opening 30 Minutes-Weak blow built 1/4 inch into bucket w ater in 30 minutes
 1st Shut-in 20 Minutes-No blow back
 2nd Opening 20 Minutes-Very weak surge did not build
 2nd Shut-in 20 Minutes-No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1651.42	101.61	Initial Hydro-static
1	30.10	101.20	Open To Flow (1)
35	35.44	101.43	Shut-In(1)
51	442.40	101.89	End Shut-In(1)
52	34.24	101.77	Open To Flow (2)
72	35.89	102.13	Shut-In(2)
94	410.56	102.71	End Shut-In(2)
94	1588.81	103.07	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	spot oil cut mud 1% oil 99% mud	0.14

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

L B Exploration Inc
 2135 2nd Rd Holyrood KS 67450+9021
 ATTN: Steven Petermann

3-17-14w Barton
Kingston #5
 Job Ticket: 17012 **DST#: 5**
 Test Start: 2013.07.17 @ 13:15:00

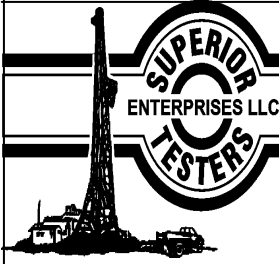
Tool Information

Drill Pipe:	Length: 3444.00 ft	Diameter: 3.80 inches	Volume: 48.31 bbl	Tool Weight:	1000.00 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	70000.00 lb
			<u>Total Volume: 48.31 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial	50000.00 lb
Depth to Top Packer:	3455.00 ft			Final	5000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	12.00 ft				
Tool Length:	32.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut-In Tool	5.00			3440.00	
Hydraulic Tool	5.00			3445.00	
Packer	5.00			3450.00	20.00 Bottom Of Top Packer
Packer	5.00			3455.00	
Anchor	7.00			3462.00	
Recorder	1.00	6731	Inside	3463.00	
Recorder	1.00	8159	Outside	3464.00	
Bullnose	3.00			3467.00	12.00 Bottom Packers & Anchor

Total Tool Length: 32.00



DRILL STEM TEST REPORT

FLUID SUMMARY

L B Exploration Inc
2135 2nd Rd Holyrood KS 67450+9021
ATTN: Steven Petermann

3-17-14w Barton
Kingston #5
Job Ticket: 17012 **DST#: 5**
Test Start: 2013.07.17 @ 13:15:00

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: 8.80 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 7000.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

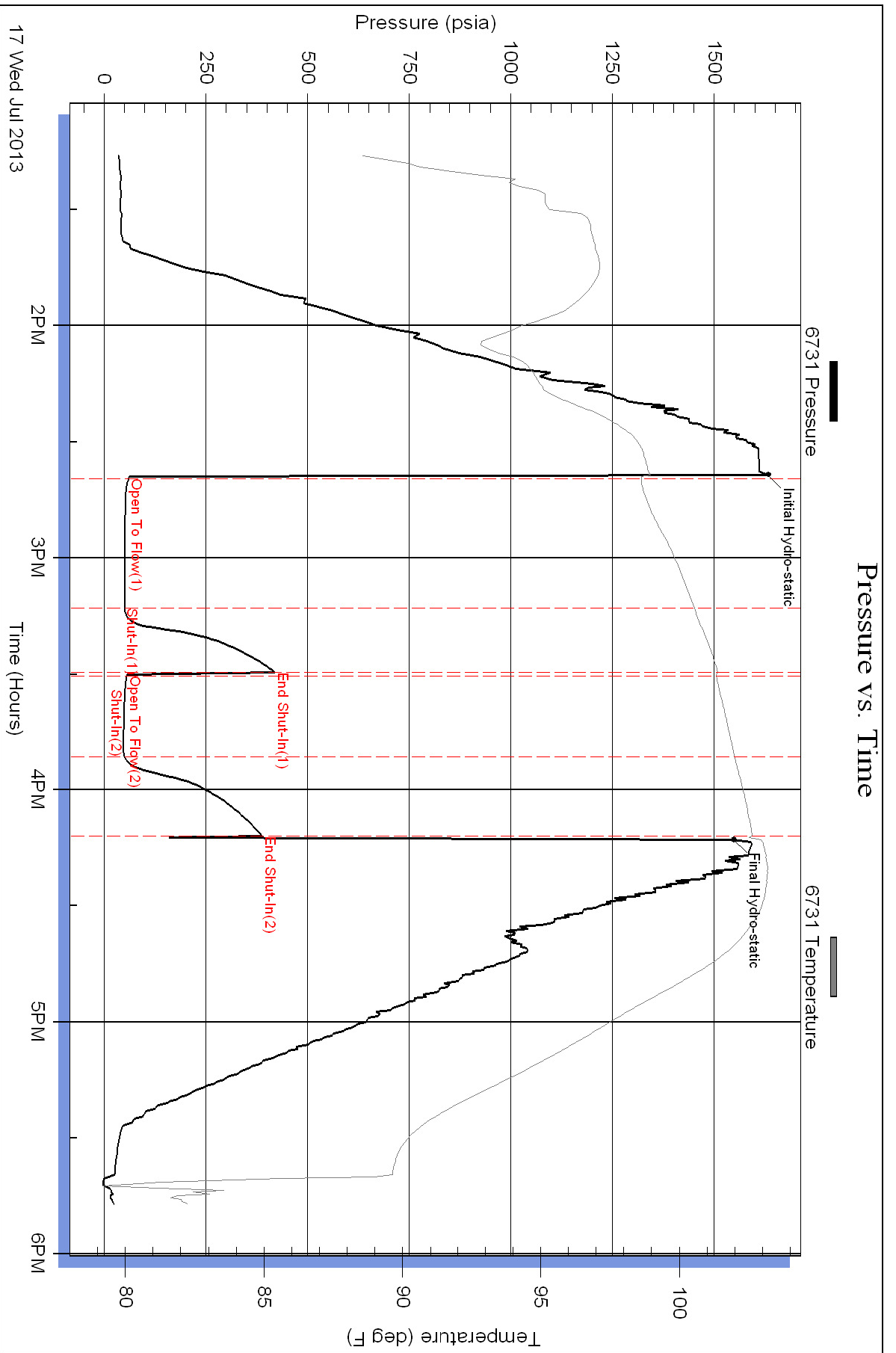
Length ft	Description	Volume bbl
10.00	spot oil cut mud 1% oil 99% mud	0.140

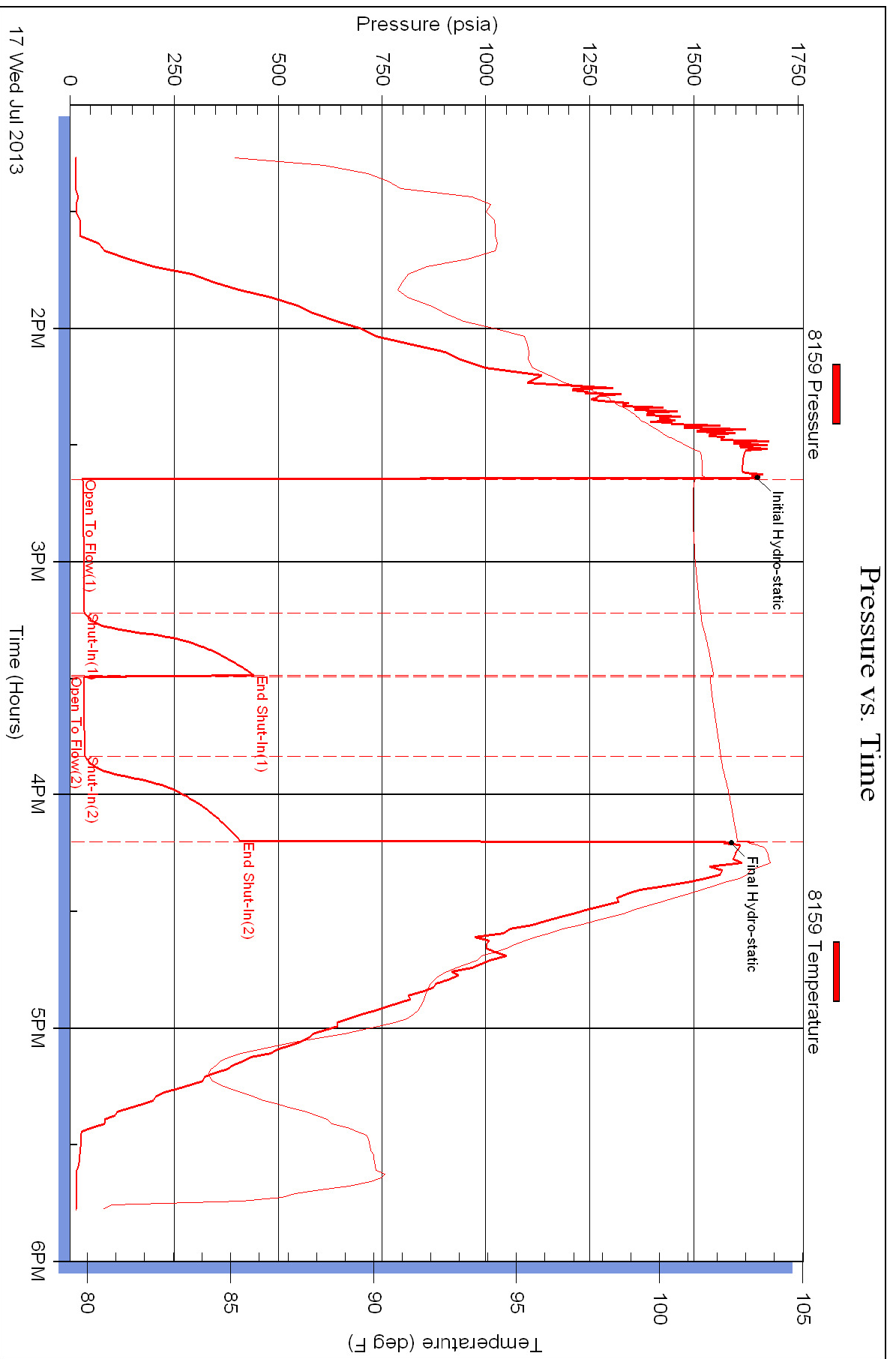
Total Length: 10.00 ft Total Volume: 0.140 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **L B Exploration Inc**

2135 2nd Rd Holyrood KS 67450+9021

ATTN: Steven Petermann

Kingston #5

3-17-14w Barton

Start Date: 2013.07.16 @ 07:45:00

End Date: 2013.07.16 @ 14:20:30

Job Ticket #: 17010 DST #: 3

Superior Testers Enterprises LLC
PO Box 138 Great Bend KS 67530
1-800-792-6902

Printed: 2013.07.20 @ 07:20:57



DRILL STEM TEST REPORT

L B Exploration Inc
 2135 2nd Rd Holyrood KS 67450+9021
 ATTN: Steven Petermann

3-17-14w Barton
Kingston #5
 Job Ticket: 17010 **DST#: 3**
 Test Start: 2013.07.16 @ 07:45:00

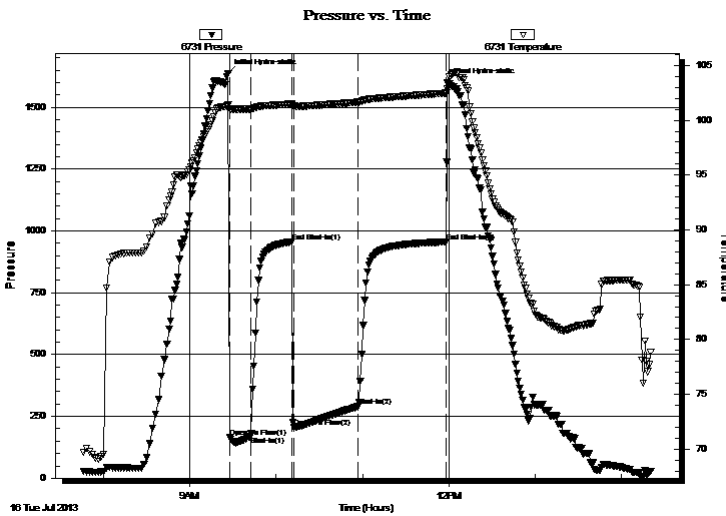
GENERAL INFORMATION:

Formation: **Lansing H - J**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 09:27:30 Tester: Jared Scheck
 Time Test Ended: 14:20:30 Unit No: 3320-Great Bend -
 Interval: **3331.00 ft (KB) To 3394.00 ft (KB) (TVD)** Reference Elevations: 1965.00 ft (KB)
 Total Depth: 3394.00 ft (KB) (TVD) 1955.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 10.00 ft

Serial #: 6731

Press @ RunDepth: 289.13 psia @ ft (KB) Capacity: 5000.00 psia
 Start Date: 2013.07.16 End Date: 2013.07.16 Last Calib.: 2013.07.16
 Start Time: 07:46:00 End Time: 14:20:30 Time On Btm: 2013.07.16 @ 09:26:30
 Time Off Btm: 2013.07.16 @ 11:59:00

TEST COMMENT: 1st Opening 15 Minutes-Strong blow built bottom of bucket in 1 Minute
 1st Shut-in 30 Minutes-Bottom of bucket blow back
 2nd Opening 45 Minutes-Strong blow built bottom of bucket less than 1 minute Gas to surface 15 minutes
 2nd Shut-in 60 Minutes-Yes Blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1637.65	101.39	Initial Hydro-static
1	163.71	101.03	Open To Flow (1)
16	168.72	101.02	Shut-In(1)
44	955.75	101.48	End Shut-In(1)
46	206.19	101.28	Open To Flow (2)
91	289.13	101.65	Shut-In(2)
152	955.57	102.47	End Shut-In(2)
153	1600.93	102.87	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	mud oil cut gas	1.68
0.00	15% mud 35% oil 50% gas	0.00
120.00	gas mud cut oil	1.68
0.00	20% gas 30% mud 50% oil	0.00
390.00	clean gas oil 10% gas 90% oil	5.47
0.00	gravity oil 45	0.00

Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
First Gas Rate	0.25	4.30	6.82
Last Gas Rate	0.25	3.50	5.55
Max. Gas Rate	0.25	4.30	6.82



DRILL STEM TEST REPORT

TOOL DIAGRAM

L B Exploration Inc
 2135 2nd Rd Holyrood KS 67450+9021
 A T T N : Steven Petermann

3-17-14w Barton
Kingston #5
 Job Ticket: 17010 **DST#: 3**
 Test Start: 2013.07.16 @ 07:45:00

Tool Information

Drill Pipe:	Length: 3319.00 ft	Diameter: 3.80 inches	Volume: 46.56 bbl	Tool Weight:	1000.00 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	70000.00 lb
			<u>Total Volume: 46.56 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial	48000.00 lb
Depth to Top Packer:	3331.00 ft			Final	52000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	63.00 ft				
Tool Length:	83.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments: Gas to surface 2nd opening see gas report/gravity oil 45

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			3316.00	
Hydraulic Tool	5.00			3321.00	
Packer	5.00			3326.00	20.00 Bottom Of Top Packer
Packer	5.00			3331.00	
Anchor	0.00			3331.00	
Change Over Sub	0.75			3331.75	
Drill Pipe	31.50			3363.25	
Change Over Sub	0.75			3364.00	
Anchor	25.00			3389.00	
Recorder	1.00	6731	Inside	3390.00	
Recorder	1.00	8159	Outside	3391.00	
Bullnose	3.00			3394.00	63.00 Bottom Packers & Anchor

Total Tool Length: 83.00



DRILL STEM TEST REPORT

FLUID SUMMARY

L B Exploration Inc
 2135 2nd Rd Holyrood KS 67450+9021
 ATTN: Steven Petermann

3-17-14w Barton
Kingston #5
 Job Ticket: 17010 **DST#: 3**
 Test Start: 2013.07.16 @ 07:45:00

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: 7.99 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 4000.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	mud oil cut gas	1.683
0.00	15%mud 35%oil 50% gas	0.000
120.00	gas mud cut oil	1.683
0.00	20%gas 30%mud 50%oil	0.000
390.00	clean gas oil 10%gas 90%oil	5.471
0.00	gravity oil 45	0.000

Total Length: 630.00 ft Total Volume: 8.837 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: Gravity oil 45

