



KANSAS CORPORATION COMMISSION 1099015  
OIL & GAS CONSERVATION DIVISION

Form ACO-1  
June 2009

Form Must Be Typed  
Form must be Signed  
All blanks must be Filled

**WELL COMPLETION FORM**  
**WELL HISTORY - DESCRIPTION OF WELL & LEASE**

OPERATOR: License # 33186  
Name: LB Exploration, Inc.  
Address 1: 2135 2ND RD  
Address 2: \_\_\_\_\_  
City: HOLYROOD State: KS Zip: 67450 + 9021  
Contact Person: Michael Petermann  
Phone: ( 785 ) 252-8034  
CONTRACTOR: License # 34541  
Name: Ninnescah Drilling LLC  
Wellsite Geologist: Scott Alberg  
Purchaser: \_\_\_\_\_

Designate Type of Completion:

- New Well     Re-Entry     Workover
- Oil     WSW     SWD     SLOW
- 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
- Conv. to GSW
- Plug Back: \_\_\_\_\_ Plug Back Total Depth \_\_\_\_\_
- Commingled    Permit #: \_\_\_\_\_
- Dual Completion    Permit #: \_\_\_\_\_
- SWD    Permit #: \_\_\_\_\_
- ENHR    Permit #: \_\_\_\_\_
- GSW    Permit #: \_\_\_\_\_

8/26/2011    9/5/2011    9/15/2011  
Spud Date or    Date Reached TD    Completion Date or  
Recompletion Date    Recompletion Date

API No. 15 - 15-007-23752-00-00

Spot Description:  
NW SW NE NE Sec. 30 Twp. 32 S. R. 13  East  West  
970 Feet from  North /  South Line of Section  
1085 Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE     NW     SE     SW

County: Barber

Lease Name: Palmer 30 Well #: 1

Field Name: \_\_\_\_\_

Producing Formation: Mississippi

Elevation: Ground: 1807 Kelly Bushing: 1820

Total Depth: 5164 Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: 264 Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: 3084 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: 130000 ppm Fluid volume: 320 bbls

Dewatering method used: Hauled to Disposal

Location of fluid disposal if hauled offsite: \_\_\_\_\_

Operator Name: BEMCO

Lease Name: Mac License #: 32613

Quarter NW Sec. 7 Twp. 32 S. R. 11  East  West

County: Barber Permit #: D21045

**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**

- Letter of Confidentiality Received  
Date: \_\_\_\_\_
- Confidential Release Date: \_\_\_\_\_
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: Deanna Garrison Date: 11/05/2012



1099015

Operator Name: LB Exploration, Inc. Lease Name: Palmer 30 Well #: 1
Sec. 30 Twp. 32 S. R. 13 East West County: Barber

INSTRUCTIONS: Show important tops and base 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. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken (Attach Additional Sheets)
Samples Sent to Geological Survey
Cores Taken
Electric Log Run
Electric Log Submitted Electronically
List All E. Logs Run: Attached

CASING RECORD Table with columns: 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. Includes rows for Surface and Production.

ADDITIONAL CEMENTING / SQUEEZE RECORD Table with columns: Purpose, Depth Top Bottom, Type of Cement, # Sacks Used, Type and Percent Additives.

PERFORATION RECORD - Bridge Plugs Set/Type Table with columns: 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, 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: Vented, Sold, Used on Lease
METHOD OF COMPLETION: Open Hole, Perf., Dually Comp., Commingled, Other (Specify)
PRODUCTION INTERVAL:

Form	ACO1 - Well Completion
Operator	LB Exploration, Inc.
Well Name	Palmer 30 1
Doc ID	1099015

All Electric Logs Run

Dual Induction
Dual Compensated Porosity
Microresistivity
Borehole Compensated Sonic

# QUALITY WFL SERVICE, INC.

5285

Home Office 324 Simpson St., Pratt, KS 67124

Todd's Cell 620-388-5422  
Office / Fax 620-672-3663

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

Date	0-27-11	Sec.	30	Twp.	32	Range	13	County	BARBER	State	Ks	On Location		Finish	12:00 PM
Lease	Palmer 30		Well No.		1		Location MED Lodge K, W. on 160 to MM 217								
Contractor	H. J. Wilson Wilg.							Owner AS E H into							
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 1/4		T.D.		270		Charge To LB Expl. Inc								
Csg.	2 3/8 23"		Depth		209 30		Street								
Tbg. Size			Depth				City								
Tool			Depth				State								
Cement Left in Csg.			Shoe Joint		15		The above was done to satisfaction and supervision of owner agent or contractor.								
Meas Line			Displace		159		Cement Amount Ordered 290 x 62143 K2								
<b>EQUIPMENT</b>							27 (2) 3 3/8 CL 1/4" CF								
Pumptrk	9	No.	TOOS				Common 150								
Bulktrk	4	No.	LAWER				Poz. Mix 120								
Bulktrk		No.					Gel. 4								
Pickup		No.	DUG				Calcium 3								
<b>JOB SERVICES &amp; REMARKS</b>							Hulls								
Rat Hole							Salt								
Mouse Hole							Flowseal 63								
Centralizers							Kol-Seal								
Baskets							Mud CLR 48								
D/V or Port Collar							CFL-117 or CD110 CAF 38								
Run 6 1/2 2 3/8 23" csg.							Sand								
MTX: Pump 250 x 62143 K2							Handling 262								
2 3/8 3 3/8 CL 1/4" CF							Mileage 15								
4.7" Gal 1 25 ft							<b>FLOAT EQUIPMENT</b>								
OK Release Plug							Guide Shoe								
DISP 15.9, 15.1, 10.1							Centralizer								
Close Valve on Log							Baskets								
Good Circ the Job							AFU Inserts								
Circ out 10 ft							Float Shoe								
							Latch Down								
							1 Wooden Plug								
							Pumptrk Charge Surface								
							Mileage 15								
							Tax								
							Discount								
Signature Terry J. Fleming							Total Charge								

Taylor Printing, Inc.

# BASIC

energy services, L.P.

## TREATMENT REPORT

Customer	L.B. EXPLORATION	Lease No.		Date	9-5-2011
Lease	PALMER	Well #	30-1 TD-7		
Field Order #	41071	Station	PRATT, KS	Casing	5 1/2" x 14"
				Depth	5160'
Type Job	CNW - 5 1/2" L.S. W/PARTICULAR		Formation		Legal Description
					30-12-13

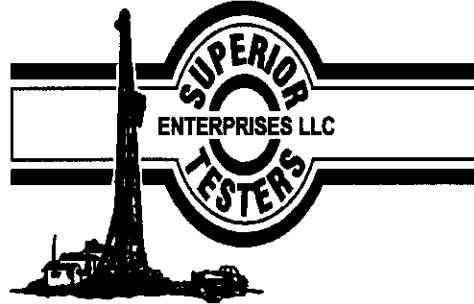
PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft	From	To	Acid	RATE	PRESS	ISIP
5 1/2"			01117		2855SK AA2			5 Min.
Depth	Depth	From	To	To	Pre Pad	Max		10 Min.
5137.70					6.1 & 11.1 FT			15 Min.
Volume	Volume	From	To	To	Pad	Min		
195.35 BBL								
Max Press	Max Press	From	To	To	Frac	Avg		
1500								
Well Connection	Annulus Vol.	From	To	To		HHP Used		Annulus Pressure
P.S.								
Plug Depth	Packer Depth	From	To	To	Flush	Gas Volume		Total Load
5079.63					124.3 BBL			

Customer Representative	MICHAEL PETERMAN	Station Manager	D SCOTT	Treater	K. LESLEY
Service Units	19870	19889	19842	19960	11918
Driver Names	LESLEY	LAWRENCE	PISSON	PHYE	

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
7:00 PM					ON LOCATION - SAFETY MEETING
7:30 PM					RUN 5 1/2" x 14" CSG.
					TURBO - 1, 3, 4, 6, 7, 13, 14, 15, 20, 24, 27, 28
					32, 33, 50, 53, 54, 56, 58, 60
					BASKET - 12, 17, 30, 48
					PARTICULAR - 49
11:06 PM					CSG ON BOTTOM
11:15 PM					HOOK P TO CSG - 1/BREAK CIRC. W/RH
12:50 AM	300		12	6	MUD FLUSH
12:55 AM	100		69	6	MIX 2855SK AA2 @ 15.3 PPG
1:10 AM					CLEAR PIPELINE/DROP PLUG
1:18 AM	0		0	7	START DISPLACEMENT
1:28 AM	300		72	6	LIFT PRESSURE
1:34 AM	1000		100	5	SLOW RATE
1:40 AM	1500		124	4	PLUG DOWN - HELD
			6, 4		PLUG R.H. + 11.1 H
					CIRC. THRU JCB
					JCB COMPLETE
					THANKS -
					KEVEN LESLEY

10244 NE Hiway 61 • P.O. Box 8613 • Pratt, KS 67124-8613 • (620) 672-1201 • Fax (620) 672-5383

Taylor Printing, Inc. 620-672-3654



## DRILL STEM TEST REPORT

Prepared For: **LB Exploration LLC**

2135 2ND Road  
Holyrood, Kansas 67460

ATTN: Kurt Talbott

**30/32S/13W/Barber**

**Palmer 30 #1**

Start Date: 2011.08.31 @ 15:00:00

End Date: 2011.08.31 @ 23:01:00

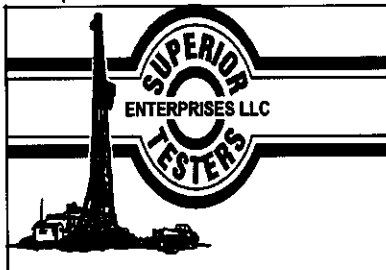
Job Ticket #: 15842                      DST #: 1

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

Printed: 2011.08.31 @ 21:18:23

LB Exploration LLC    Palmer 30 #1    30/32S/13W/Barber    DST # 1    Marmaton    2011.08.31





# DRILL STEM TEST REPORT

LB Exploration LLC  
 2135 2ND Road  
 Holyrood, Kansas 67460  
 ATTN: Kurt Talbott

**Palmer 30 #1**  
**30/32S/13W/Barber**  
 Job Ticket: 15842      **DST#: 1**  
 Test Start: 2011.08.31 @ 15:00:00

## GENERAL INFORMATION:

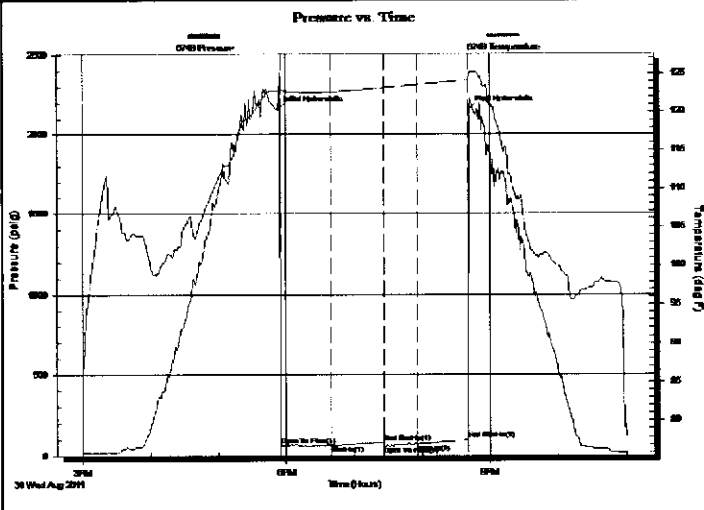
Formation: **Marmaton**  
 Deviated: **No** Whipstock:                      ft (KB)  
 Time Tool Opened: 17:55:30  
 Time Test Ended: 23:01:00  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Ken Swinney  
 Unit No: 3325 Pratt/80  
 Interval: **4460.00 ft (KB) To 4525.00 ft (KB) (TVD)**  
 Total Depth: 4525.00 ft (KB) (TVD)  
 Reference Elevations: 1820.00 ft (KB)  
 1807.00 ft (CF)  
 Hole Diameter: 7.75 inches Hole Condition: Fair  
 KB to GR/CF: 13.00 ft

## Serial #: 6749

Inside

Press@RunDepth: 98.22 psig @ 4520.78 ft (KB)      Capacity: 5000.00 psig  
 Start Date: 2011.08.31      End Date: 2011.08.31      Last Calib.: 2011.08.31  
 Start Time: 15:00:00      End Time: 23:01:00      Time On Btm: 2011.08.31 @ 17:53:00  
 Time Off Btm: 2011.08.31 @ 20:41:30

TEST COMMENT: 1ST Open      45 Minutes/Weak blow /Blow built just below surface/Blow died in 35 minutes  
 1ST Shut In      45 Mintues/No blow back  
 2ND Open      30 Minutes/No blow /Flush tool/Didnt help  
 2ND Shut In      45 Minutes/No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2158.38	122.70	Initial Hydro-static
3	63.53	122.88	Open To Flow (1)
47	64.07	122.61	Shut-In(1)
93	82.25	123.17	End Shut-In(1)
93	59.13	123.16	Open To Flow (2)
123	72.28	123.56	Shut-In(2)
168	98.22	124.16	End Shut-In(2)
169	2156.98	124.90	Final Hydro-static

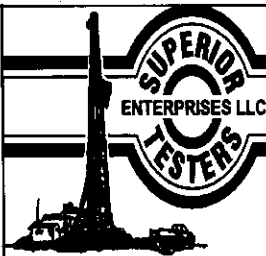
## Recovery

Length (ft)	Description	Volume (bbl)
15.00	Mud 100%	0.22

## Gas Rates

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





# DRILL STEM TEST REPORT

TOOL DIAGRAM

LB Exploration LLC  
 2135 2ND Road  
 Holyrood, Kansas 67460  
 ATTN: Kurt Talbott

**Palmer 30 #1**  
**30/32S/13W/Barber**  
 Job Ticket: 15842      **DST#: 1**  
 Test Start: 2011.08.31 @ 15:00:00

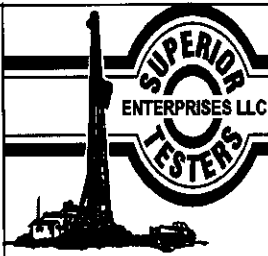
## Tool Information

Drill Pipe:	Length: 4445.00 ft	Diameter: 3.88 inches	Volume: 65.00 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 58000.00 lb
			<u>Total Volume: 65.00 bbl</u>	Tool Chased 1.00 ft
Drill Pipe Above KB:	13.75 ft			String Weight: Initial 51000.00 lb
Depth to Top Packer:	4460.00 ft			Final 51000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	64.78 ft			
Tool Length:	93.53 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			4436.25	
Hydraulic tool	5.00			4441.25	
Change over sub	0.75			4442.00	
Jars	6.00			4448.00	
Safety Joint	2.00			4450.00	
Packer	5.00			4455.00	28.75      Bottom Of Top Packer
Packer	5.00			4460.00	
Anchor	5.00			4465.00	
change over sub	0.75			4465.75	
drill pipe	31.28			4497.03	
change over sub	0.75			4497.78	
anchor	22.00			4519.78	
Recorder	1.00	6749	Inside	4520.78	
Recorder	1.00	6748	Outside	4521.78	
bull plug	3.00			4524.78	64.78      Bottom Packers & Anchor

**Total Tool Length: 93.53**



# DRILL STEM TEST REPORT

## FLUID SUMMARY

LB Exploration LLC  
 2135 2ND Road  
 Holyrood, Kansas 67460  
 ATTN: Kurt Talbott

**Palmer 30 #1**  
**30/32S/13W/Barber**  
 Job Ticket: 15842      **DST#: 1**  
 Test Start: 2011.08.31 @ 15:00:00

### Mud and Cushion Information

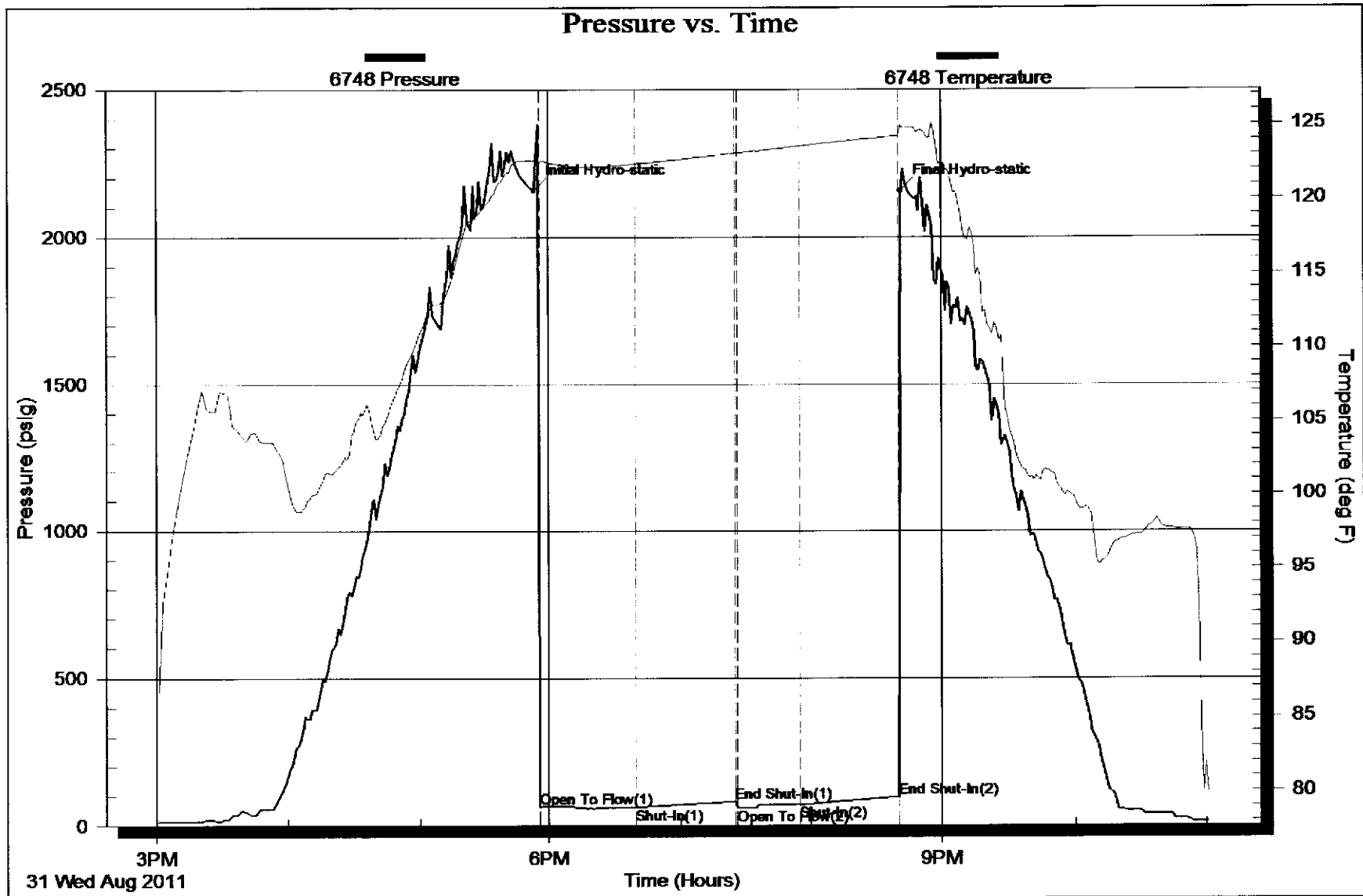
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 48.00 sec/qt	Cushion Volume: bbl		
Water Loss: 11.19 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 5000.00 ppm			
Filter Cake: 1.00 inches			

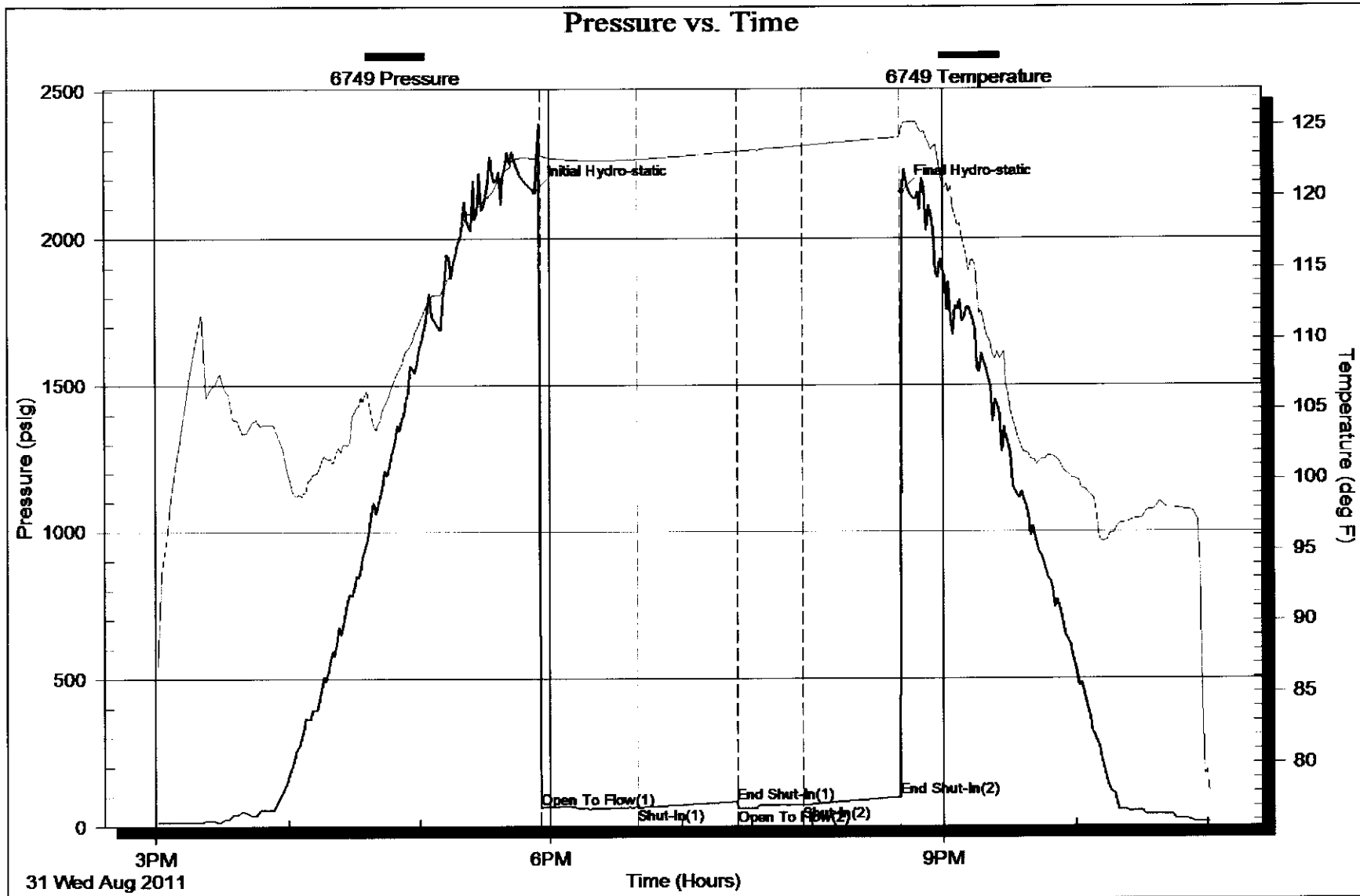
### Recovery Information

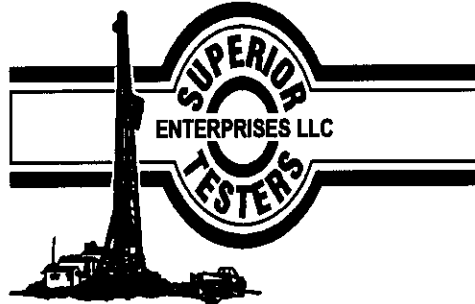
Recovery Table

Length ft	Description	Volume bbl
15.00	Mud 100%	0.219

Total Length: 15.00 ft      Total Volume: 0.219 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:







## DRILL STEM TEST REPORT

Prepared For: **LB Exploration LLC**

2135 2ND Road  
Holyrood, Kansas 67460

ATTN: Kurt Talbott

**30/32S/13W/Barber**

**Palmer 30 #1**

Start Date: 2011.09.01 @ 07:23:00

End Date: 2011.09.01 @ 16:07:00

Job Ticket #: 15843                      DST #: 2

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

Printed: 2011.09.01 @ 14:23:16

LB Exploration LLC

Palmer 30 #1

30/32S/13W/Barber

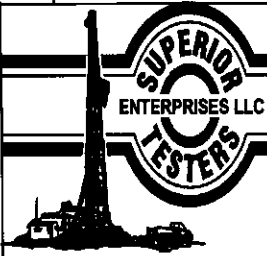
DST # 2

Mississippian

2011.09.01







# DRILL STEM TEST REPORT

TOOL DIAGRAM

LB Exploration LLC  
 2135 2ND Road  
 Holyrood, Kansas 67460  
 ATTN: Kurt Talbott

**Palmer 30 #1**  
**30/32S/13W/Barber**  
 Job Ticket: 15843      **DST#: 2**  
 Test Start: 2011.09.01 @ 07:23:00

### Tool Information

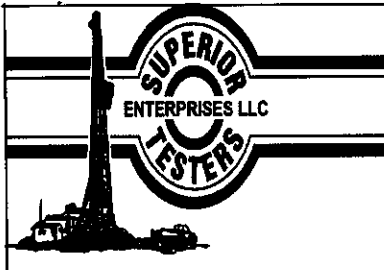
Drill Pipe:	Length: 4525.00 ft	Diameter: 3.88 inches	Volume: 66.17 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 66.17 bbl</u>	Tool Chased 1.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 51000.00 lb
Depth to Top Packer:	4529.00 ft			Final 51000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	26.00 ft			
Tool Length:	55.00 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			4505.00	
Hydraulic tool	5.00			4510.00	
Change over sub	1.00			4511.00	
Jars	6.00			4517.00	
Safety Joint	2.00			4519.00	
Packer	5.00			4524.00	29.00      Bottom Of Top Packer
Packer	5.00			4529.00	
Anchor	21.00			4550.00	
Recorder	1.00	6749	Inside	4551.00	
Recorder	1.00	6748	Outside	4552.00	
Bullnose	3.00			4555.00	26.00      Bottom Packers & Anchor

**Total Tool Length: 55.00**





# DRILL STEM TEST REPORT

**FLUID SUMMARY**

LB Exploration LLC  
 2135 2ND Road  
 Holyrood, Kansas 67460  
 ATTN: Kurt Talbott

**Palmer 30 #1**  
**30/32S/13W/Barber**  
 Job Ticket: 15843      **DST#: 2**  
 Test Start: 2011.09.01 @ 07:23:00

## Mud and Cushion Information

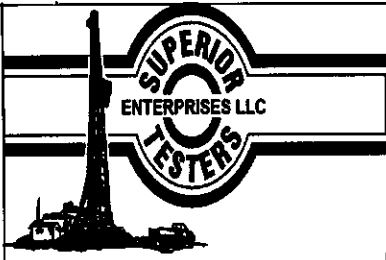
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length:	Water Salinity:	ppm
Viscosity: 48.00 sec/qt	ft		
Water Loss: 11.20 in <sup>3</sup>	Cushion Volume:		
Resistivity: ohm.m	bbl		
Salinity: 5000.00 ppm	Gas Cushion Type:		
Filter Cake: 1.00 inches	psig		

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
75.00	Mud with show of oil 100%	1.097

Total Length: 75.00 ft      Total Volume: 1.097 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:



# DRILL STEM TEST REPORT

**GAS RATES**

LB Exploration LLC  
2135 2ND Road  
Holyrood, Kansas 67460  
ATTN: Kurt Talbott

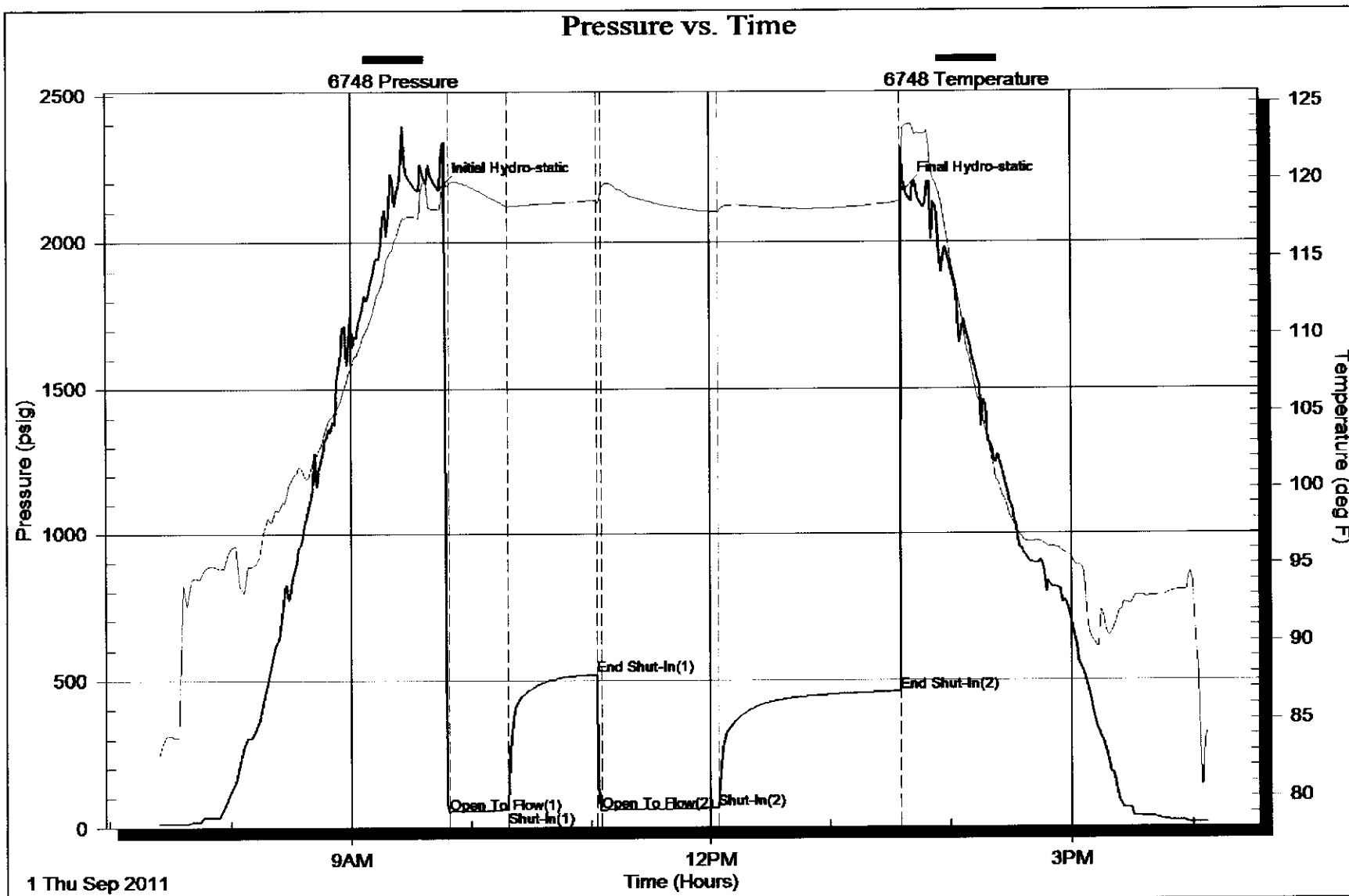
**Palmer 30 #1**  
**30/32S/13W/Barber**  
Job Ticket: 15843      **DST#: 2**  
Test Start: 2011.09.01 @ 07:23:00

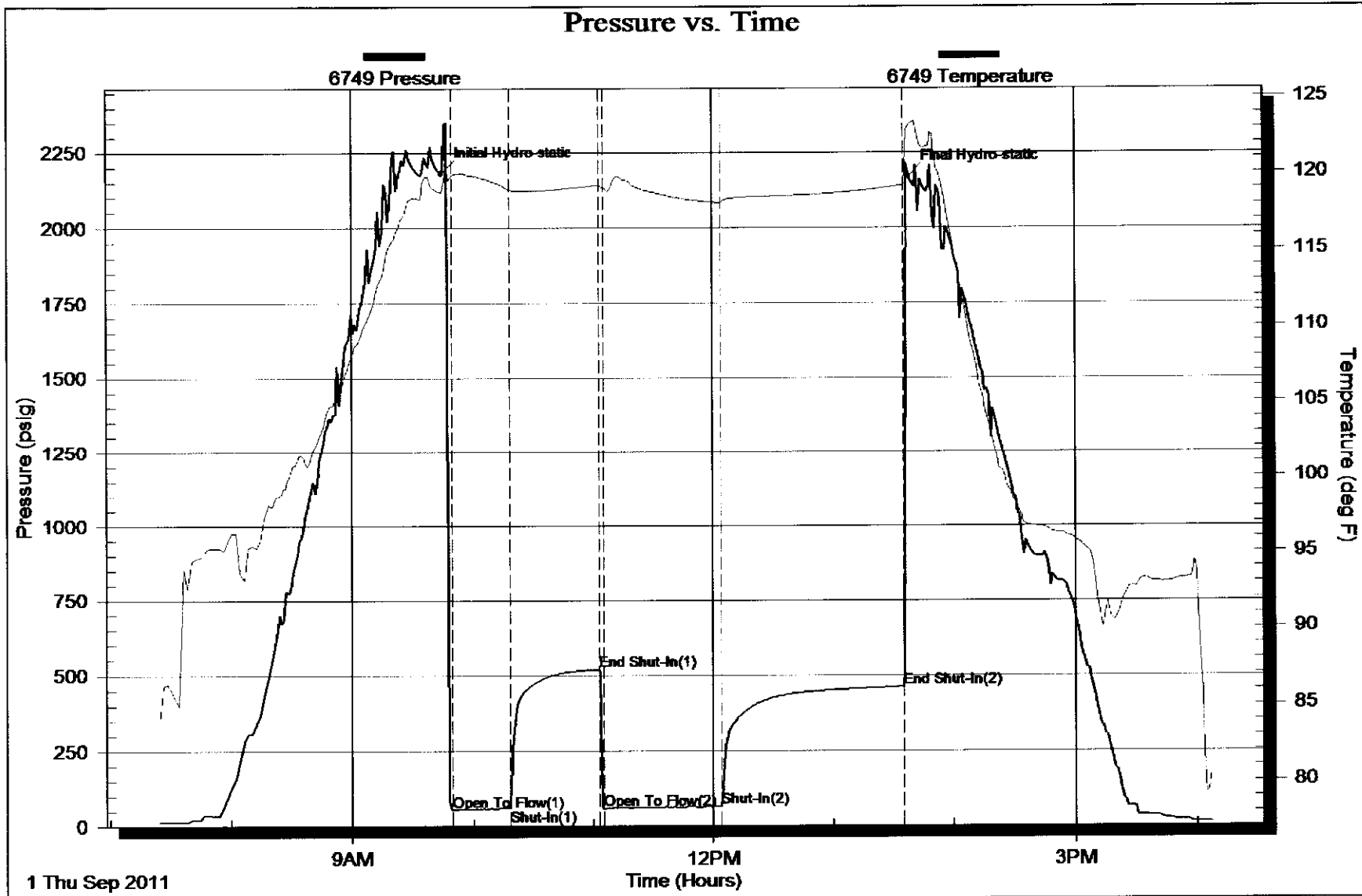
## Gas Rates Information

Temperature: 59 (deg F)  
Relative Density: 0.65  
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
1	20	0.75	4.21	68.02
1	20	0.75	4.21	68.02
1	30	0.75	4.21	68.02
2	10	0.75	5.08	81.54
2	20	0.75	4.67	75.13
2	30	0.75	4.31	69.51
2	40	0.75	4.13	66.70







## DRILL STEM TEST REPORT

Prepared For: **LB Exploration LLC**

2135 2ND Road  
Holyrood, Kansas 67460

ATTN: Kurt Talbott

**30/32S/13W/Barber**

**Palmer 30 #1**

Start Date: 2011.09.01 @ 23:35:00

End Date: 2011.09.02 @ 07:33:00

Job Ticket #: 15844                      DST #: 3

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

Printed: 2011.09.02 @ 06:14:07

LB Exploration LLC

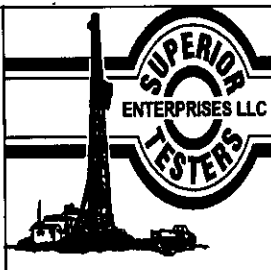
Palmer 30 #1

30/32S/13W/Barber

DST # 3

Mississippian

2011.09.01



# DRILL STEM TEST REPORT

LB Exploration LLC  
 2135 2ND Road  
 Holyrood, Kansas 67460  
 ATTN: Kurt Talbott

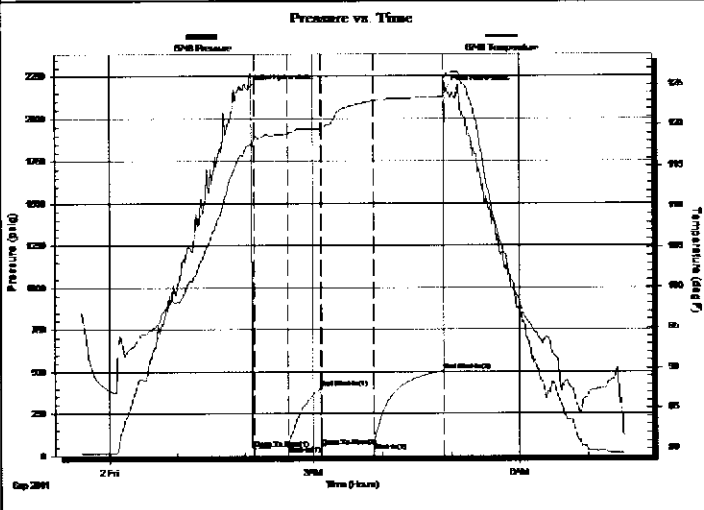
**Palmer 30 #1**  
**30/32S/13W/Barber**  
 Job Ticket: 15844      **DST#: 3**  
 Test Start: 2011.09.01 @ 23:35:00

## GENERAL INFORMATION:

Formation: **Mississippian**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 02:08:30  
 Time Test Ended: 07:33:00  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Ken Swinney  
 Unit No: 3325 Pratt/80  
 Interval: **4555.00 ft (KB) To 4575.00 ft (KB) (TVD)**  
 Total Depth: 4575.00 ft (KB) (TVD)  
 Reference Elevations: 1820.00 ft (KB)  
 1807.00 ft (CF)  
 Hole Diameter: 7.75 inches Hole Condition: Fair  
 KB to GR/CF: 13.00 ft

**Serial #: 6748      Outside**  
 Press@RunDepth: 75.89 psig @ 4572.00 ft (KB)      Capacity: 5000.00 psig  
 Start Date: 2011.09.01      End Date: 2011.09.02      Last Calib.: 2011.09.02  
 Start Time: 23:35:00      End Time: 07:33:00      Time On Btm: 2011.09.02 @ 02:03:30  
 Time Off Btm: 2011.09.02 @ 04:55:00

**TEST COMMENT:** 1ST Open      30 Minutes/Good blow /Blow to bottom of bucket in 4 minutes  
 1ST Shut In      30 Minutes/No blow back  
 2ND Open      45 Minutes/Strong blow /Blow to bottom of bucket in 10 seconds  
 2ND Shut In      60 Minutes/Blow back built to 3 inches

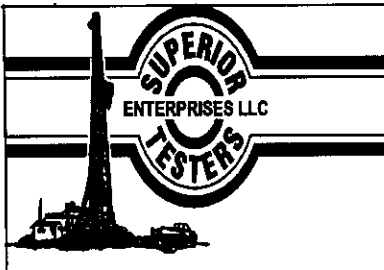


PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2177.42	117.53	Initial Hydro-static
5	43.47	118.58	Open To Flow (1)
35	58.01	118.91	Shut-In(1)
64	402.19	119.51	End Shut-In(1)
64	52.84	119.64	Open To Flow (2)
110	75.89	122.98	Shut-In(2)
170	503.50	123.42	End Shut-In(2)
172	2172.87	126.10	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
0.00	2976 Gas in pipe	0.00
45.00	Oil cut Muddy Water	0.66
0.00	Oil 15% Mud 35% Water 50	0.00
60.00	Oil cut Watery Mud	0.88
0.00	Oil 10% Water 10% Mud 80%	0.00
0.00	RECOVERY CHLORIDES 27000 ppm	0.00

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





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**TOOL DIAGRAM**

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**Tool Information**

Drill Pipe:	Length: 4545.00 ft	Diameter: 3.88 inches	Volume: 66.47 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 66.47 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	4555.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	20.00 ft			
Tool Length:	49.00 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			4531.00	
Hydraulic tool	5.00			4536.00	
Change over sub	1.00			4537.00	
Jars	6.00			4543.00	
Safety Joint	2.00			4545.00	
Packer	5.00			4550.00	29.00      Bottom Of Top Packer
Packer	5.00			4555.00	
Anchor	15.00			4570.00	
Recorder	1.00	6749	Inside	4571.00	
Recorder	1.00	6748	Outside	4572.00	
Bullnose	3.00			4575.00	20.00      Bottom Packers & Anchor

**Total Tool Length: 49.00**





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**FLUID SUMMARY**

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## 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: 48.00 sec/qt	Cushion Volume: bbl		
Water Loss: 11.19 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 7000.00 ppm			
Filter Cake: 1.00 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	2976 Gas in pipe	0.000
45.00	Oil cut Muddy Water	0.658
0.00	Oil 15% Mud 35% Water 50	0.000
60.00	Oil cut Watery Mud	0.877
0.00	Oil 10% Water 10% Mud 80%	0.000
0.00	RECOVERY CHLORIDES 27000 ppm	0.000

Total Length: 105.00 ft      Total Volume: 1.535 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:

