

Harvey E. Yates Company

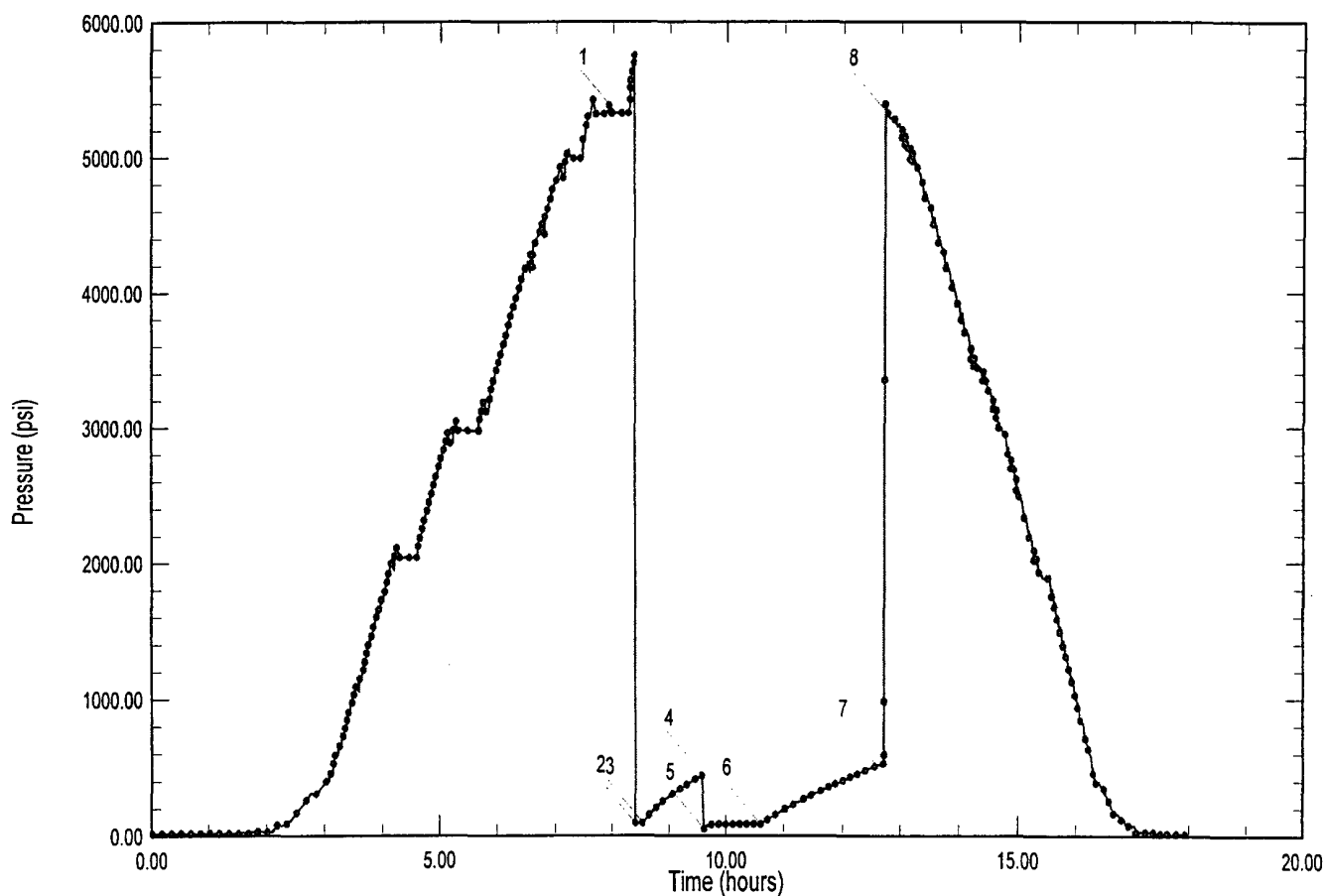
Openhole Drillstem Test
Parker Deep 5 Fed. Com. - 3

Shugart - Strawn

Rig : JW #3

Eddy - New Mexico

well file



Report Contents

Job Summary, Comments Page, Sequence of Events, Label Point Information, Plots, Summary Data Printout, Distribution

Schlumberger Testing Services

Hobbs Testing 505-393-4107
Schlumberger Private

Schlumberger

Job Summary
Harvey E. Yates Company
Openhole Drillstem Test

Parker Deep 5 Fed. Com. 3
Shugart - Strawn

Service Order Number : 10588584
Test Date : 25-Mar-03

Company Rep David Foster	SWS Rep Kirk Beasley
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Test Information

Test Number One	Formation Strawn
	Interval (MD ft) 10,660 - 10,823

Well Location

Well..... Parker Deep 5 Fed. Com. 3	Rig..... JW #3
Field..... Shugart - Strawn	State Eddy - New Mexico

Wellbore Configuration

Total Depth (MD/TVD ft) 10823	Cushion None
Casing / Liner ID (in) 7.921	Wellbore Radius (ft) 7.875
Top of Liner (md- ft)	Mud Weight (lb/gal) 9.5
	Mud Type Polymer w/Nitrates
	Mud: Chlorides/Resistivity 66,000/.104 @ 75

Test String Configuration

Pipe Length (ft) / ID (in) 9,842 / 3.826	Gauge Depth (MD) 10661
Pipe Length (ft) / ID (in)	Gauge Depth (TVD) 10661
Drill Collar Length (ft) / ID (in) 776 / 2.25	Test Valve Type Multiflow Evaluator
Packer Depths (ft MD) 10655 / 10660	Test Valve Depth (ft) (MD) 10631

Key Information

Initial Hydrostatic Pressure 5323	Final Shut In Pressure 518
Init. Hyd Grad & Density 0.499 psi/ft / 9.60 lb/gal	Final Shut In Grad & Density 0.049 psi/ft / 0.93 lb/gal
Final Hydrostatic Pressure 5324	Final Flowing Pressure 87
Final Hyd Grad & Density 0.499 psi/ft / 9.60 lb/gal	Final Flow Rate ()
Bottom Hole Temp..... 144	Productivity Index ()

This is DST #1. The Strawn formation was evaluated from 10,650' to 10,813'. The test was conclusive. There was no gas to surface during the test. The recovery was .54 barrels of mud. The test times were well suited for the zones response. Please direct any questions about this test to the Hobbs Testing district. Thank you for choosing Schlumberger.

Schlumberger Crew

Kirk Beasley

Schlumberger Private

Parker Deep 5 Fed. Com. 3

10588584

Shugart - Strawn

25-Mar-03

Sample Chamber Capacity (cc) 2500

Measured Fluid Recovery

		Temp (F)	Press (psia)
Oil (cc)	API Gravity	68	70.0
Water (cc)	Res. (ohms) ...	68	70.0
Mud (cc) 10	Res. (ohms)106 @68		
Total Liquid Recovery (cc) 10			
Gas (ft3) 0.51		68	70.0

Corrected Sample Chamber Gas Recovery

Bottomhole Temperature (F)	144	Assumed SC Gas Gravity	0.650
Final Flowing Pressure (psia)	87	Est Z Value @ Pwf and Tres	0.990
Corrected Gas Recovery (scf)	0.452		

Sample Chamber Fluid Ratios

Sample Chamber Water Cut	
GOR Using Corrected Gas Recovery	
GLR Using Corrected Gas Recovery	

Pipe Recovery

Description	Recovery feet	Pipe ID (in)	Recovery bbl	Oil Density API	RES ohm	CHL ppm
Mud	110	2.25	0.54	@ 68 F	0.106 @ 68 F	72k @ 68 F

Parker Deep 5 Fed. Com. 3

10588584

Shugart - Strawn

25-Mar-03

Date (dd-mmm-yy)	Time (hh:mm:ss)	Comments
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25-Mar-03	7:30	Safety Meeting
	7:41	Set Packer
	7:41	Open To Bubble Hose Only
	7:47	Start Flow
	7:48	Bottom Of The Bucket
	7:52	8 Ounces
	7:57	End Flow & Start Shut-in With 8 Ounces
	9:00	End Shut-in With 9.5" In The Bucket
	9:01	Start Flow - Bottom Of The Bucket
	9:06	15 Ounces
	9:11	17 Ounces
	9:16	16 Ounces
	9:29	15 Ounces
	9:44	13 Ounces
	10:01	End Flow & Start Shut-in With 12 Ounces
	12:00	End Shut-in
	12:07	Pulled Loose

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Data Plots
Harvey E. Yates Company
Openhole Drillstem Test

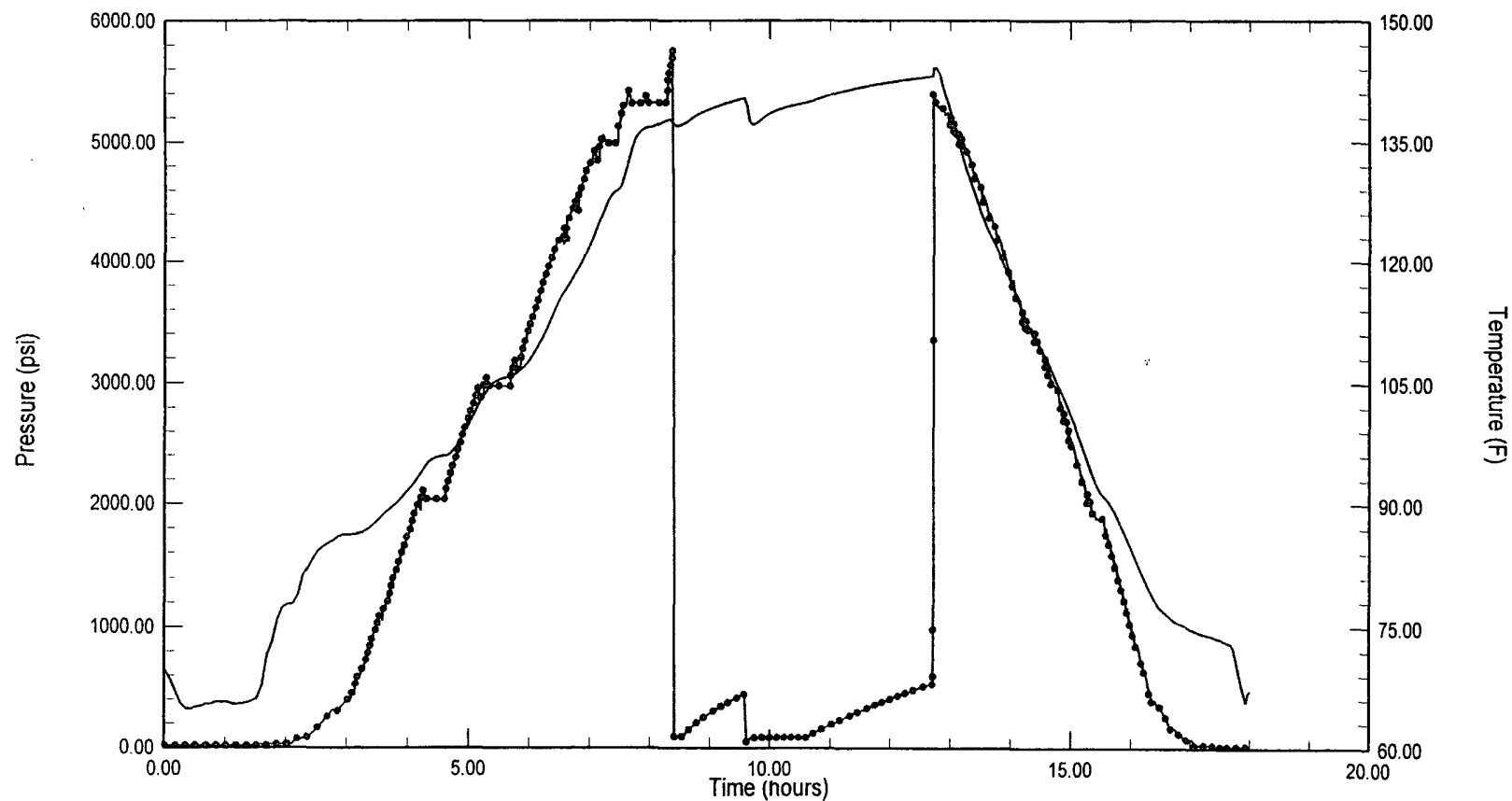
Parker Deep 5 Fed. Com. 3

10588584

Shugart - Strawn

25-Mar-03

Bottomhole Temperature Log



Gauge Depth : 10661 ft TVD - 10661 ft MD

Gauge ID : SLSR-1226

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Quicklook Plots
Harvey E. Yates Company
Openhole Drillstem Test

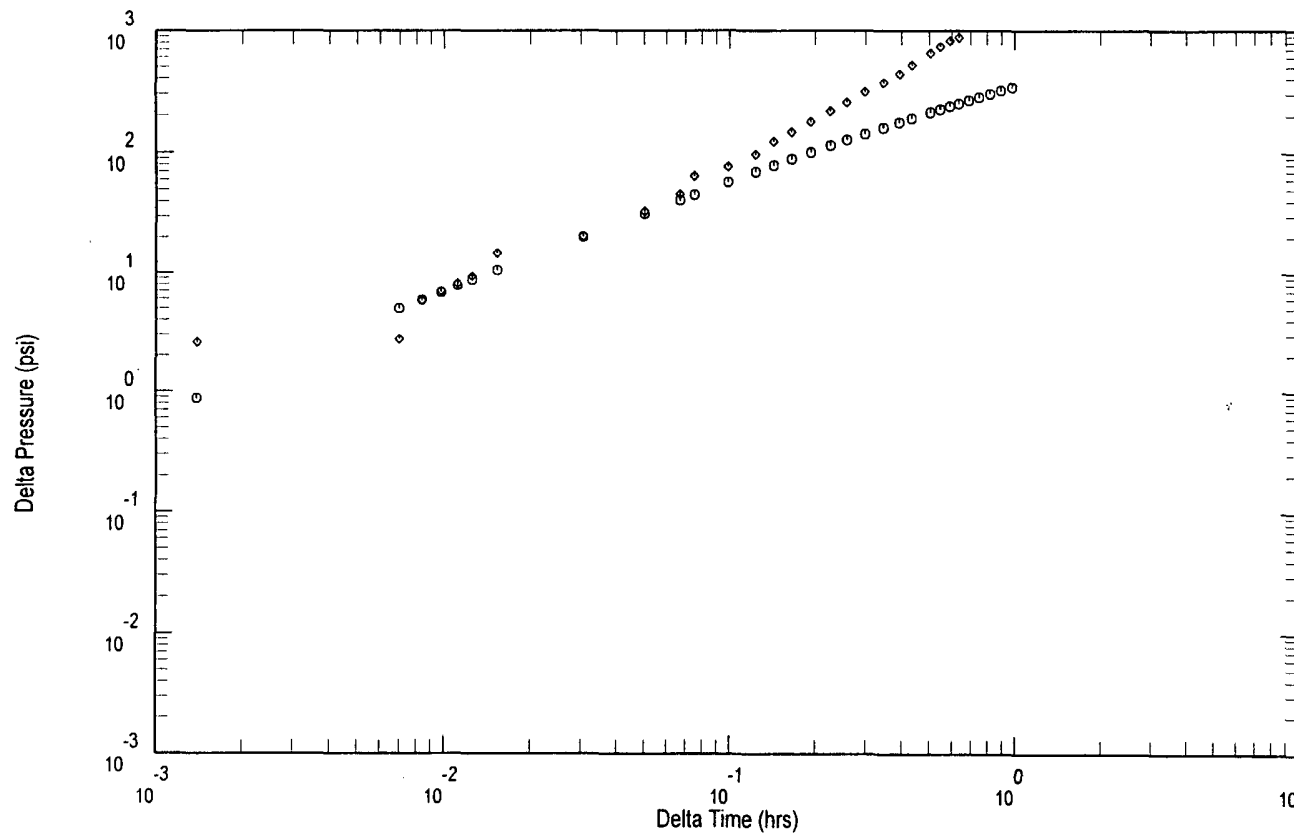
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10588584

Shugart - Strawn

25-Mar-03

Log-log Plot - Initial Shutin Period



Gauge Depth : 10661 ft TVD - 10661 ft MD

Gauge ID : SLSR-1226

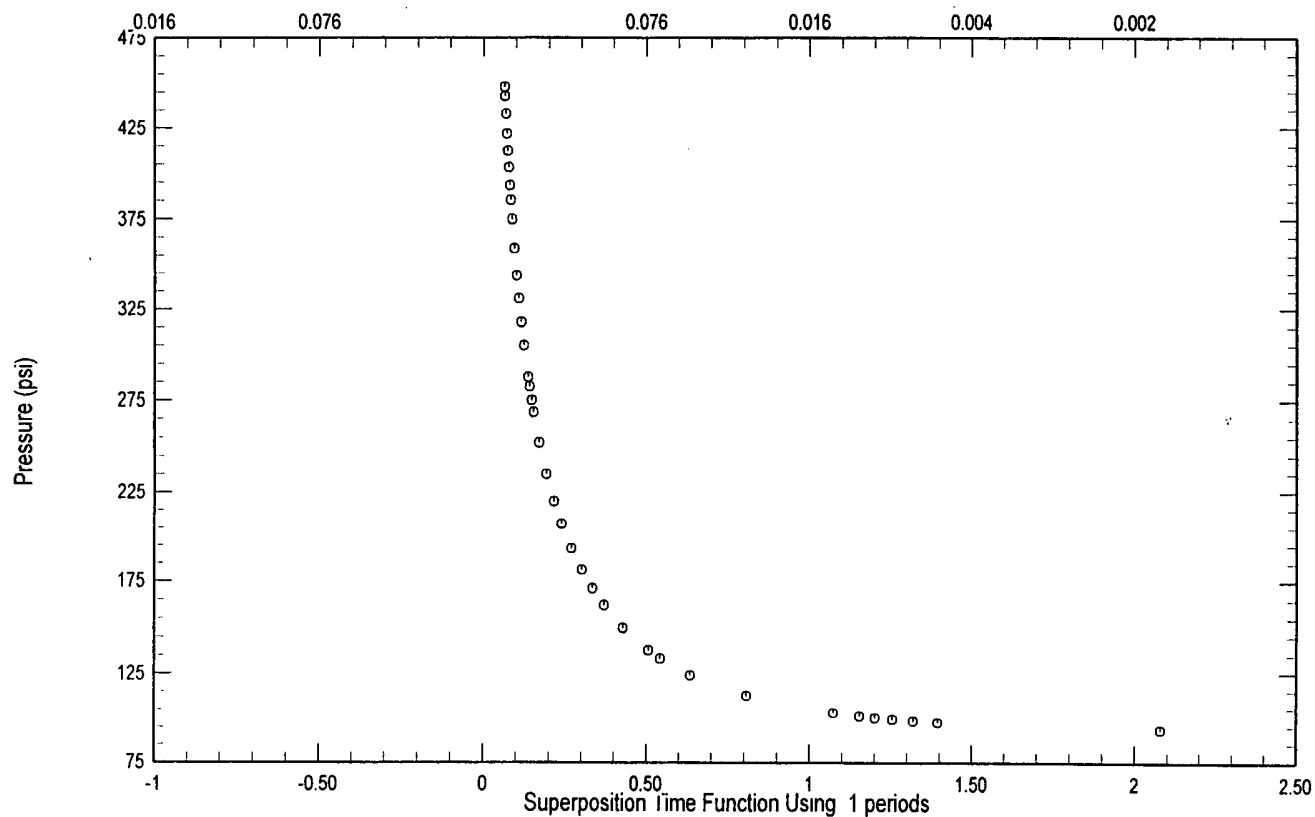
Parker Deep 5 Fed. Com. 3

10588584

Shugart - Strawn

25-Mar-03

Semi-log Plot - Initial Shutin Period



Gauge Depth : 10661 ft TVD - 10661 ft MD

Gauge ID : SLSR-1226

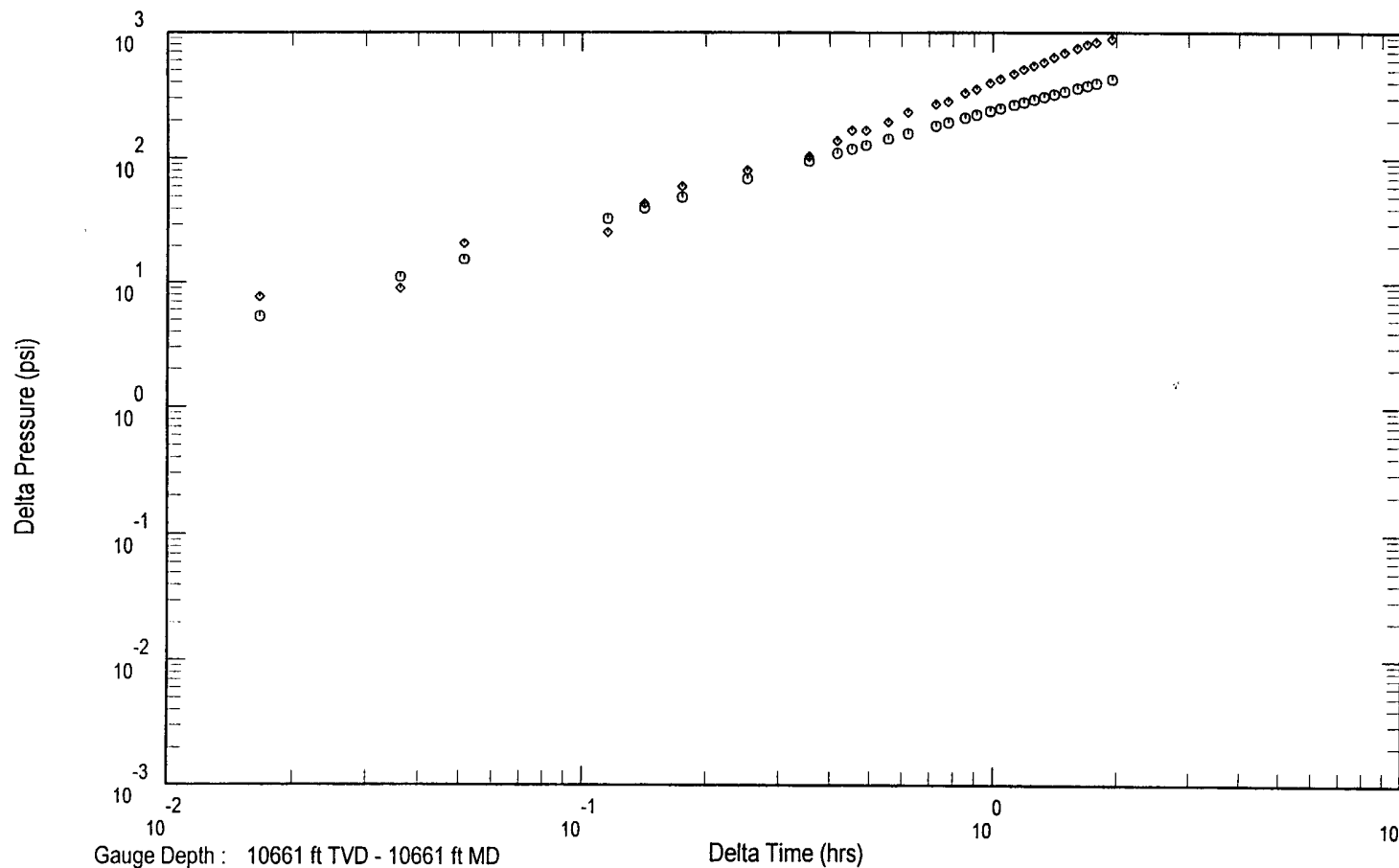
Parker Deep 5 Fed. Com. 3

10588584

Shugart - Strawn

25-Mar-03

Log-log Plot - Second Shutin Period



Gauge Depth : 10661 ft TVD - 10661 ft MD

Gauge ID : SLSR-1226

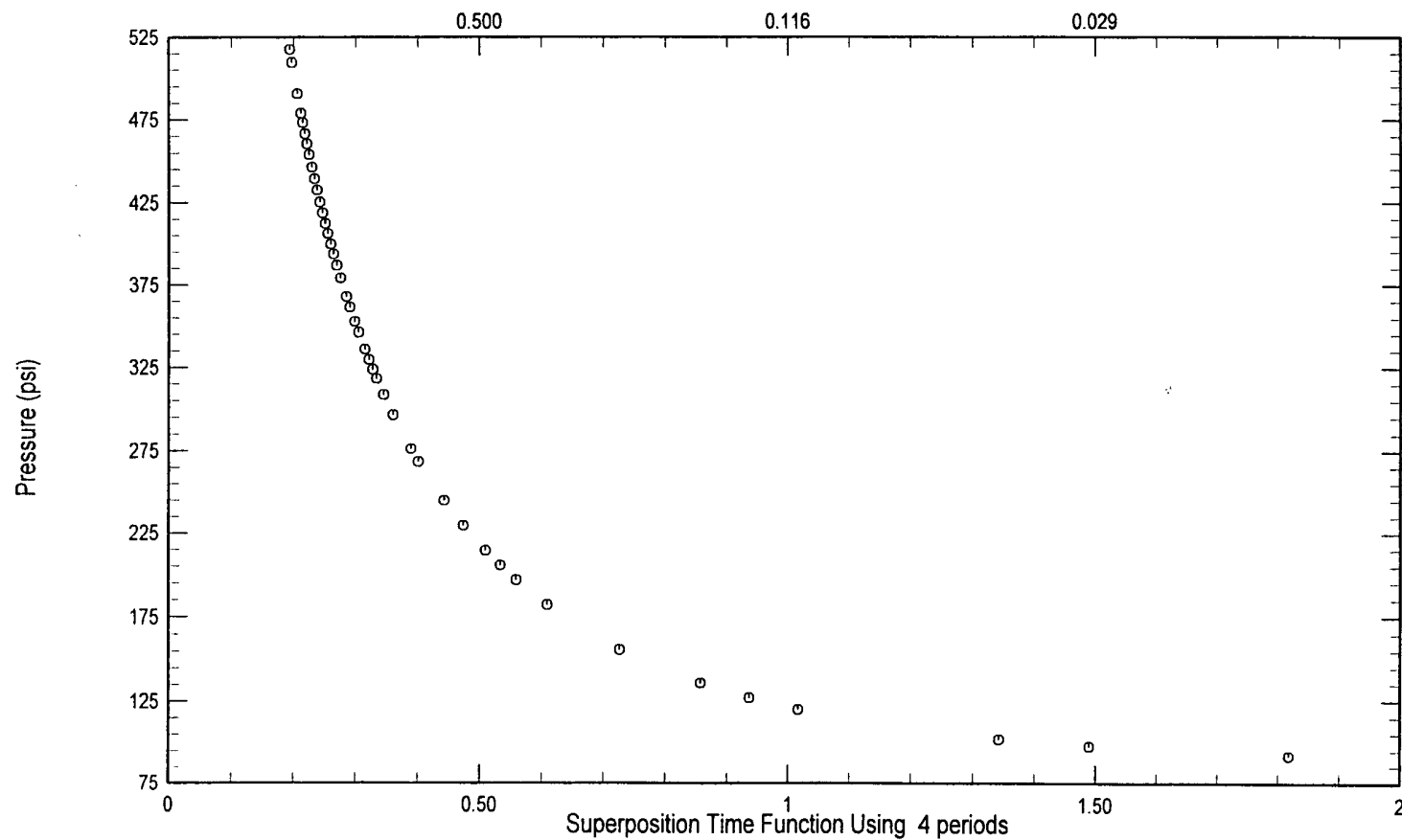
Parker Deep 5 Fed. Com. 3

10588584

Shugart - Strawn

25-Mar-03

Semi-log Plot - Second Shutin Period



Gauge Depth : 10661 ft TVD - 10661 ft MD

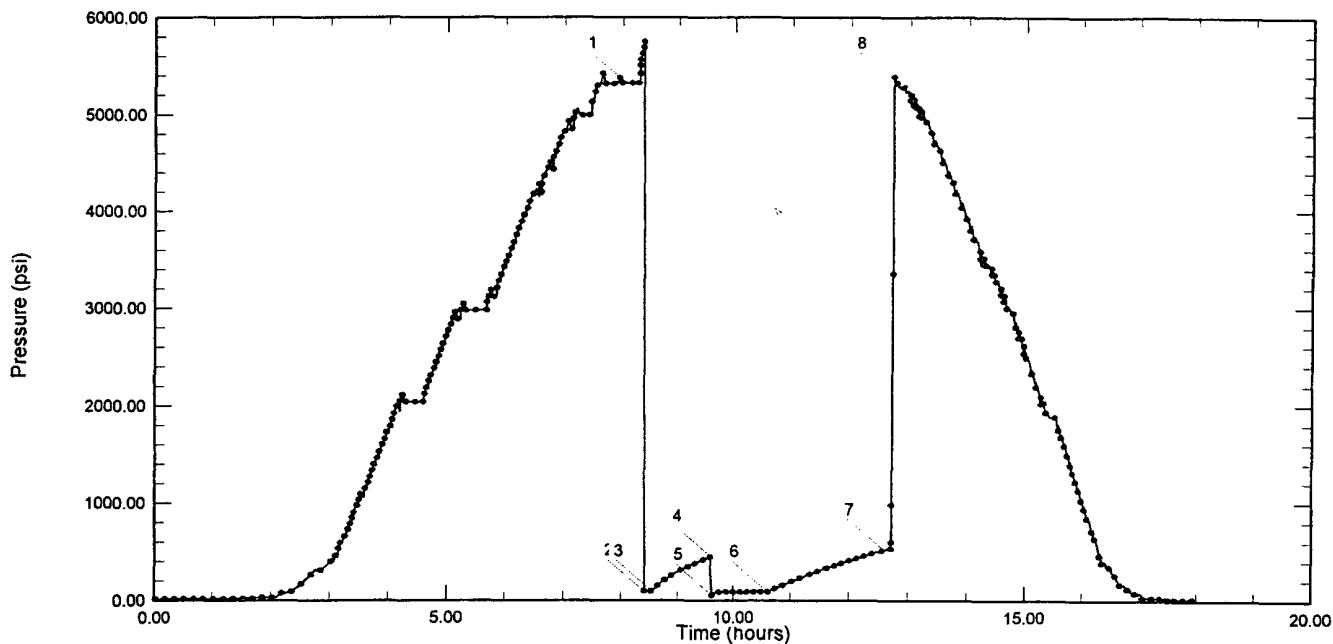
Gauge ID : SLSR-1226

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Label Point Data
Harvey E. Yates Company
Openhole Drillstem Test

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25-Mar-03



Label Point / Comments	Date (dd-mmm-yy)	Time (hh:mm:ss)	Gauge ET (hours)	BHP (psia)	Rate (0)
Label Point Summary					
1) Hydrostatic Pressure	25-Mar-03	7:27:42	8.062	5323.47	0
2) Start Flow	25-Mar-03	7:47:17	8.388	104.70	1
3) End Flow & Start Shut-in	25-Mar-03	7:57:12	8.553	92.51	0
4) End Shut-in	25-Mar-03	8:59:37	9.594	448.00	0
5) Start Flow	25-Mar-03	9:00:42	9.612	54.35	1
6) End Flow & Start Shut-in	25-Mar-03	10:00:32	10.609	86.64	0
7) End Shut-in	25-Mar-03	12:00:12	12.603	517.60	0
8) Hydrostatic Pressure	25-Mar-03	12:09:37	12.760	5324.49	0