

Schlumberger**Job Summary**
COG Operating
Openhole DST

3D-025-36885

Hopi 35 State Com. 1
Wildcat

Service Order Number : 11001135

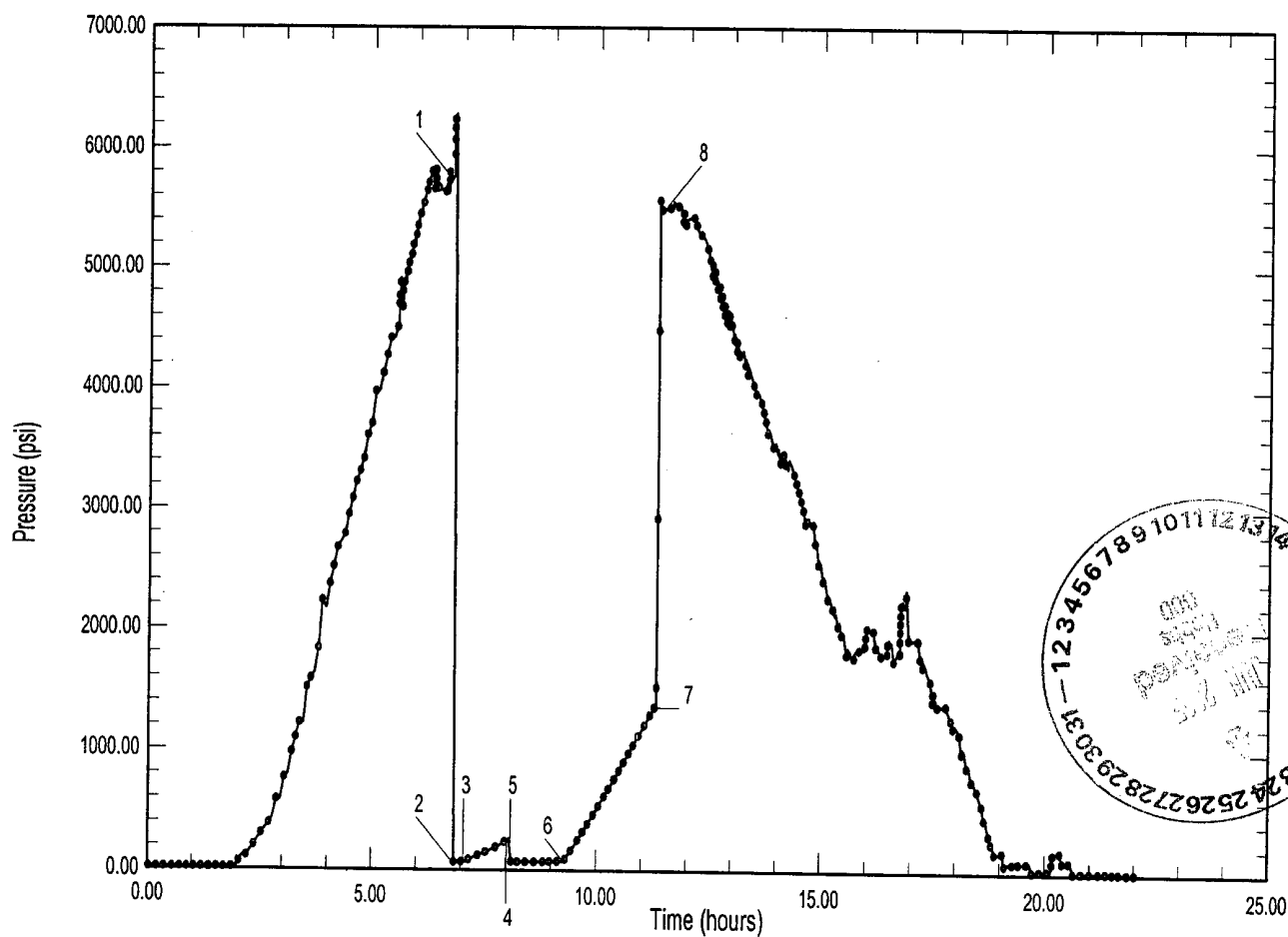
Test Date : 12-May-05

Company Rep		SWS Rep Kirk Beasley	
Test Information			
Test Number	One	Formation	Morrow
		Interval (MD ft)	10,673 - 10,803
Well Location			
Well.....	Hopi 35 State Com. 1	Rig.....	Patterson 634
Field.....	Wildcat	State	Eddy - New Mexico
Wellbore Configuration			
Total Depth (MD/TVD ft)	10803	Cushion.....	None
Casing / Liner ID (in)	8.625" - 40#	Wellbore Radius (ft)	7.875
Top of Liner (md- ft)		Mud Weight (lb/gal)	10
		Mud Type	Cut Brine
		Mud: Chlorides/Resistivity.....	90,000/.061 @ 66
Test String Configuration			
Pipe Length (ft) / ID (in)	9855	Gauge Depth (MD)	10651
Pipe Length (ft) / ID (in)		Gauge Depth (TVD)	10651
Drill Collar Length (ft) / ID (in)	776	Test Valve Type	Multiflow Evaluator
Packer Depths (ft MD)	/ 10673	Test Valve Depth (ft) (MD)	10643
Key Information			
Initial Hydrostatic Pressure	5746	Final Shut In Pressure	1354
Init. Hyd Grad & Density	0.539 psi/ft / 10.37 lb/gal	Final Shut In Grad & Density	0.127 psi/ft / 2.44 lb/gal
Final Hydrostatic Pressure	5491	Final Flowing Pressure	78
Final Hyd Grad & Density	0.516 psi/ft / 9.91 lb/gal	Final Flow Rate ()	
Bottom Hole Temp.....	165	Productivity Index ()	

An openhole formation evaluation test was performed on the Morrow formation. This well performance test was an on-bottom conventional test that isolated 32' of pay between the lower packer @ 10,673' and TD @ 10,803'. There were no drillpipe leaks, no plugging, the annulus remained constant, and the interval was completely isolated during both the flows and the shut-ins. The test was mechanically correct and conclusive. The test times were well suited for the reservoir's response. The bubble hose was used as the surface choke. The maximum pressure was 28.5 ounces. There was no indication that gas ever reached the surface during the test. The recovery was reversed out after the tools were up in the casing. The recovery was 150' (.74 barrels) of gas cut rathole mud. This quantity of estimated fluid production correlates well with the final downhole flowing pressure of 78 PSI. Please direct any questions concerning this test to the Hobbs Testing District @ 505/393-4107. Thank you for choosing Schlumberger.

Schlumberger Crew

Kirk Beasley

COG Operating**Openhole DST****Hopi 35 State Com. - 1****Wildcat****Rig : Patterson 634****Eddy - New Mexico****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**Sample Chamber Data
COG Operating
Openhole DST**Hopi 35 State Com. 1
Wildcat11001135
12-May-05

Sample Chamber Capacity (cc) 2500

Measured Fluid Recovery

		Temp (F)	Press (psia)
Oil (cc)	API Gravity	66	50.0
Water (cc)	Res. (ohms) ...	66	50.0
Mud (cc) 1600	Res. (ohms)073 @ 66		
Total Liquid Recovery (cc) 1600			
Gas (ft3) 0.13		66	50.0

Corrected Sample Chamber Gas Recovery

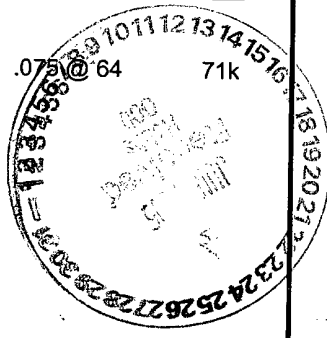
Bottomhole Temperature (F) 165	Assumed SC Gas Gravity	0.650
Final Flowing Pressure (psia) 78	Est Z Value @ Pwf and Tres	#NAME?
Corrected Gas Recovery (scf) #NAME?		

Sample Chamber Fluid Ratios

Sample Chamber Water Cut	
GOR Using Corrected Gas Recovery #NAME?	
GLR Using Corrected Gas Recovery #NAME?	

Pipe Recovery

Description	Recovery feet	Pipe ID (in)	Recovery bbl	Oil Density API	RES ohm	CHL ppm
Gas Cut Rathole Mud	150	2.25	0.74		.073 @ 64	71k



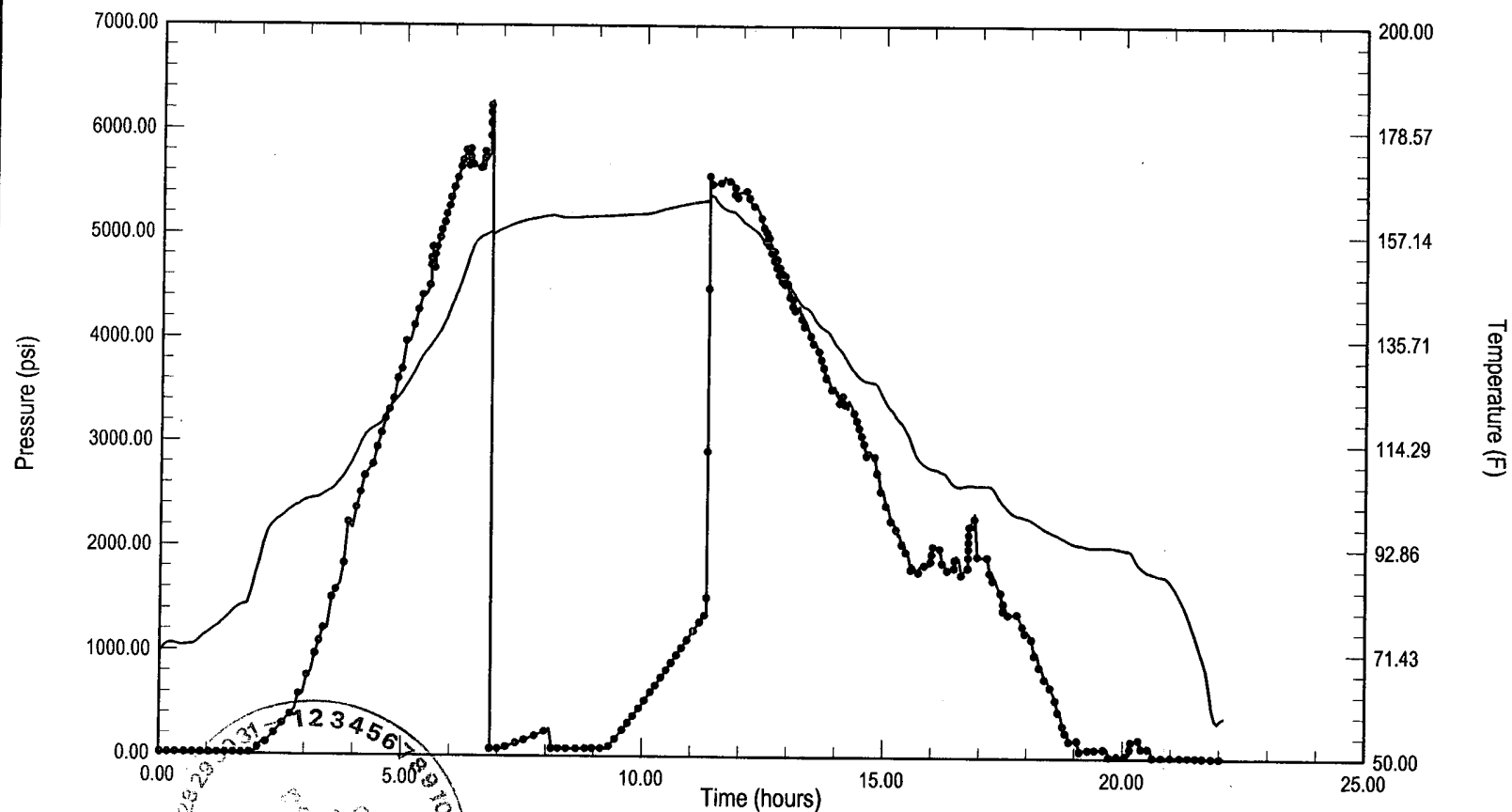
Schlumberger**Sequence of Events
COG Operating
Openhole DST**Hopi 35 State Com. 1
Wildcat11001135
12-May-05

Date (dd-mmm-yy)	Time (hh:mm:ss)	Comments
---------------------	--------------------	----------

12-May-05	16:00	Safety Meeting
	16:15	Set Packer
		Open To 1/8" Bubble Hose Only
	16:19	Start Initial Flow
	16:20	5" Bubble Bucket Blow
	16:25	Bottom Of The Bucket
	16:27	17 Ounces
	16:34	End Flow & Start Shut-in With 18.5 Ounces
	17:31	End Shut-in With 3" Of Residual Pressure
	17:36	Start Final Flow
	17:37	Bottom Of The Bucket Blow
	17:39	17 Ounces
	17:44	18 Ounces
	17:49	18.5 Ounces
	18:04	20.5 Ounces
	18:19	22 Ounces
	18:34	26 Ounces
	18:47	End Flow & Start Shut-in With 28.5 Ounces
	20:47	End Shut-in
	20:50	Pulled Loose
		Pulled Pipe Into Casing & Reversed



Bottomhole Temperature Log



Gauge Depth : 10651 ft TVD - 10651 ft MD

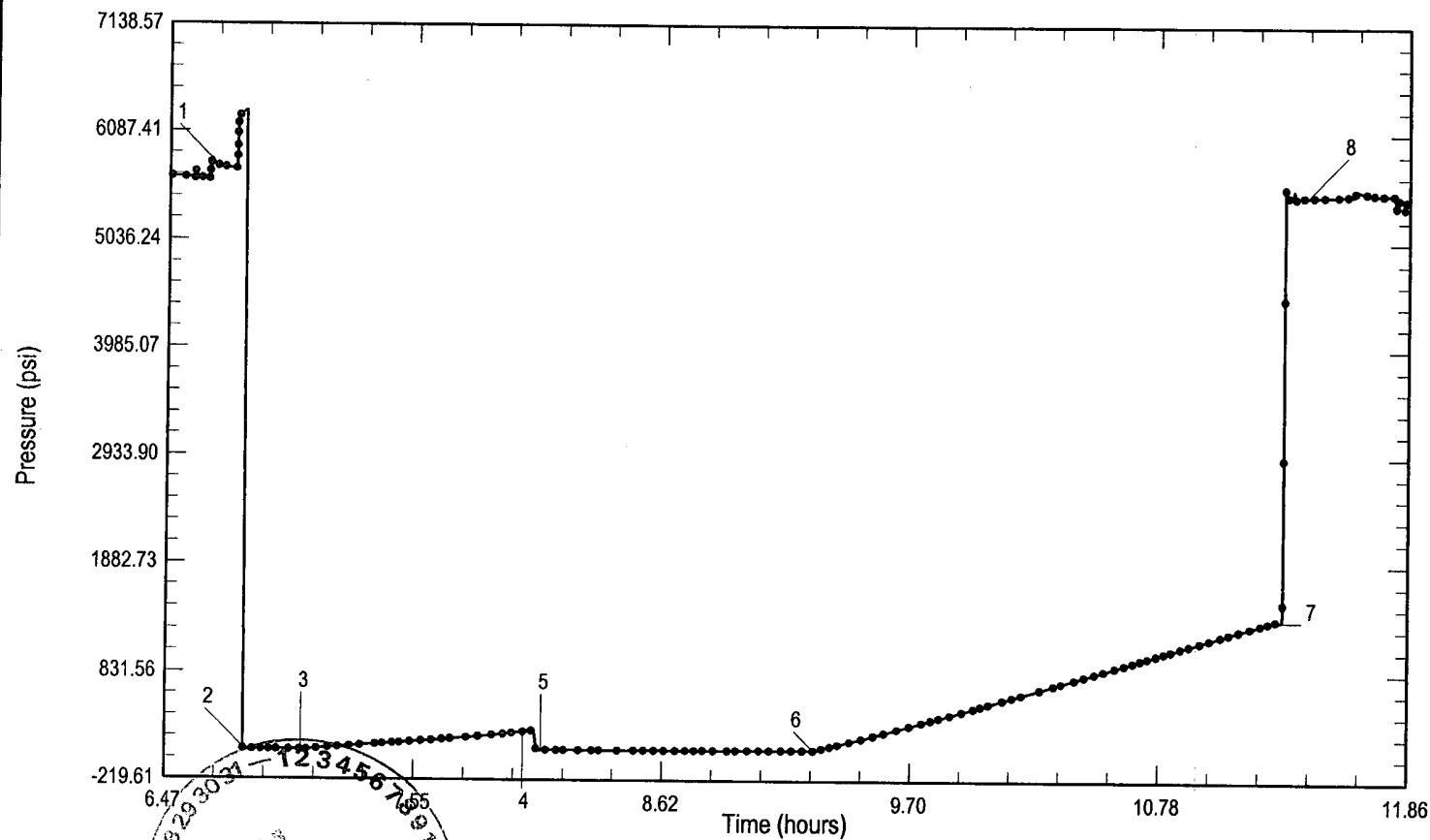
Gauge ID : SLSR-704

Hopi 35 State Com. 1

11001135

Wildcat

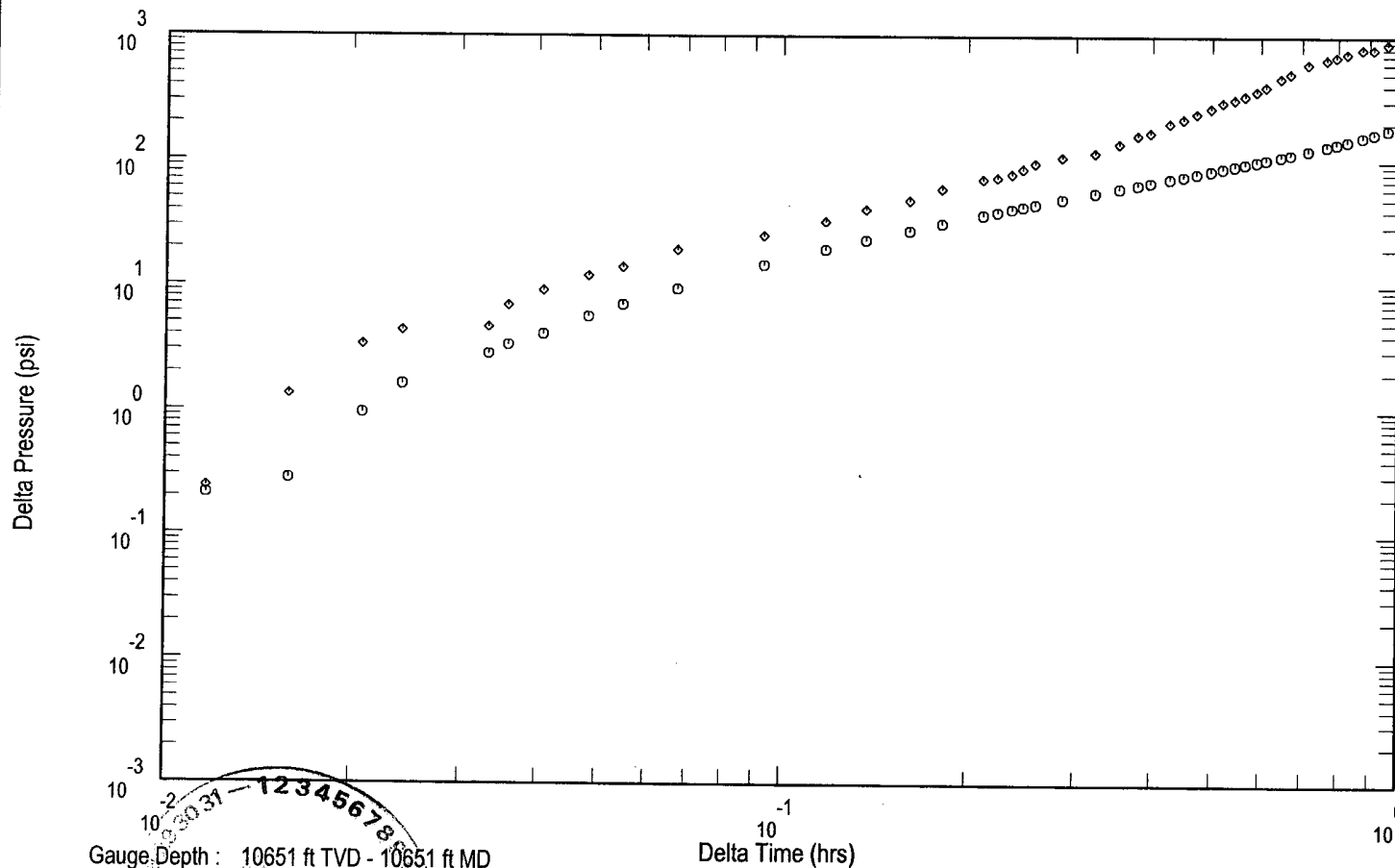
12-May-05



Gauge Depth : 10651 ft TVD - 10651 ft MD

Gauge ID : SLSR-704

Log-log Plot - Initial Shutin Period



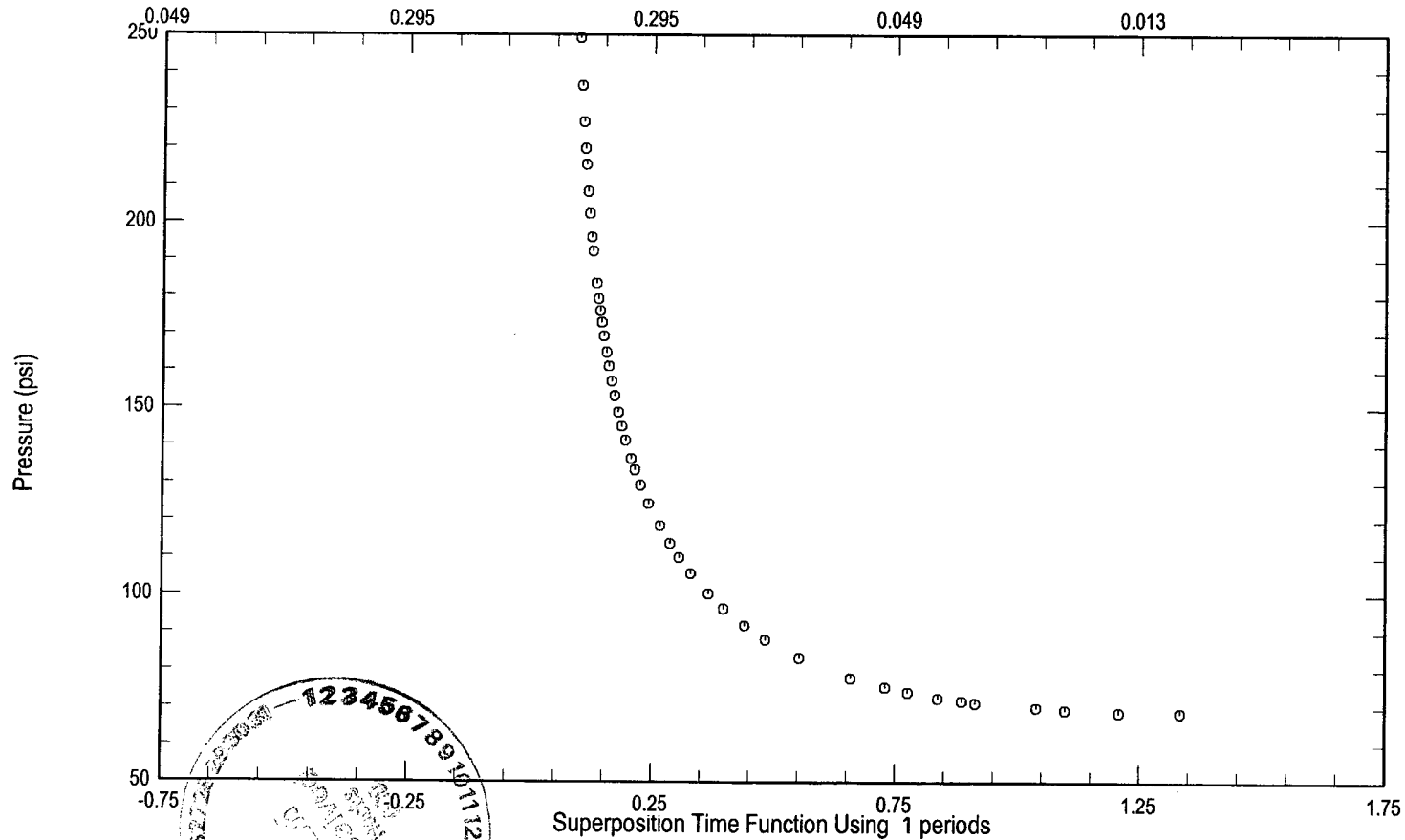
Gauge Depth : 10651 ft TVD - 10651 ft MD

Gauge ID : SLSR-704

Hopi 35 State Com. 1
Wildcat

11001135
12-May-05

Semi-log Plot - Initial Shutin Period



Gauge Depth : 10651 ft TVD - 10651 ft MD
Gauge ID : SLSR-704

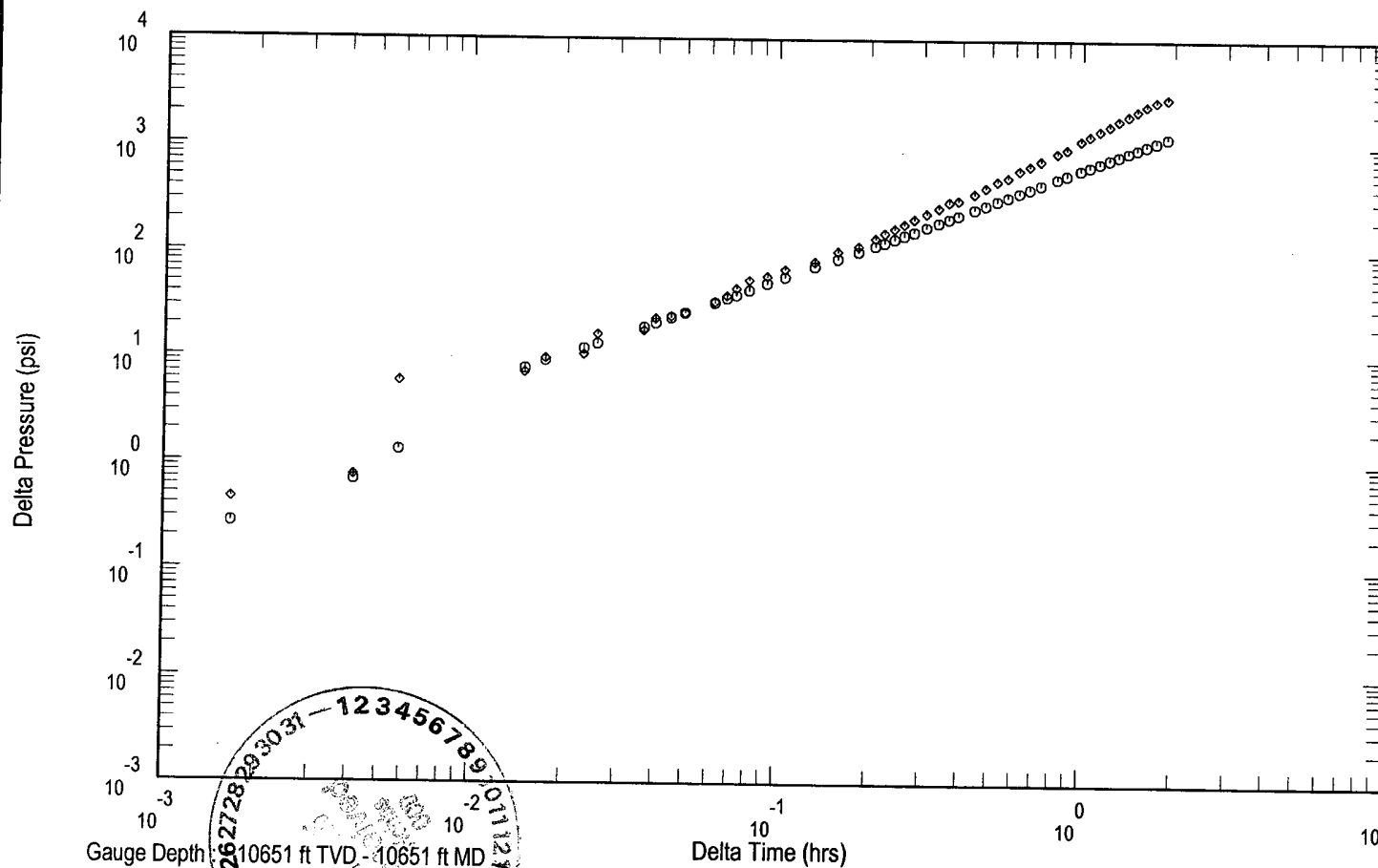
Hopi 35 State Com. 1

11001135

Wildcat

12-May-05

Log-log Plot - Second Shutin Period



Gauge Depth 10651 ft TVD - 10651 ft MD
Gauge ID LSR-704

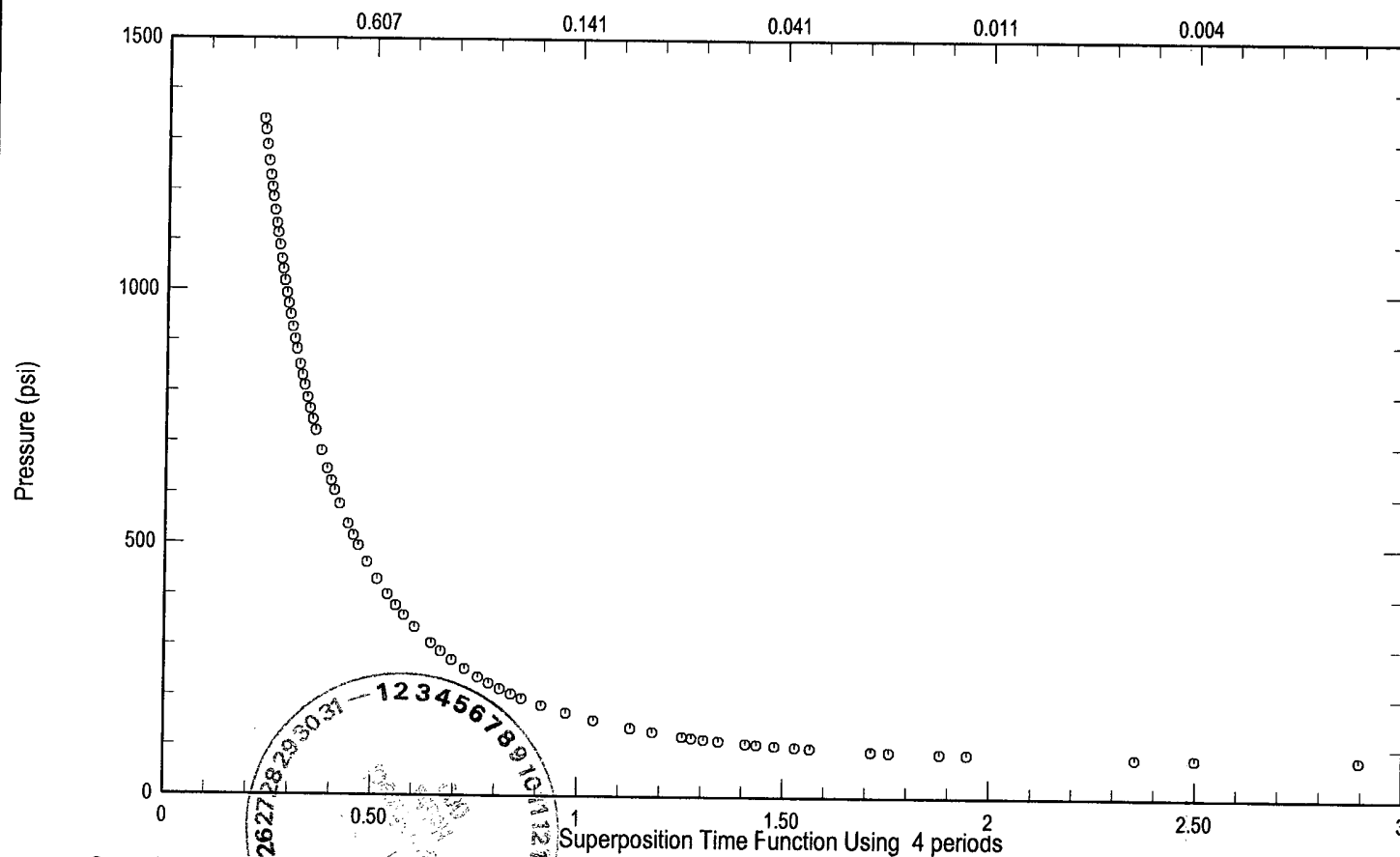
Hopi 35 State Com. 1

11001135

Wildcat

12-May-05

Semi-log Plot - Second Shutin Period



Gauge Depth : 10651 ft-TVD - 10651 ft MD

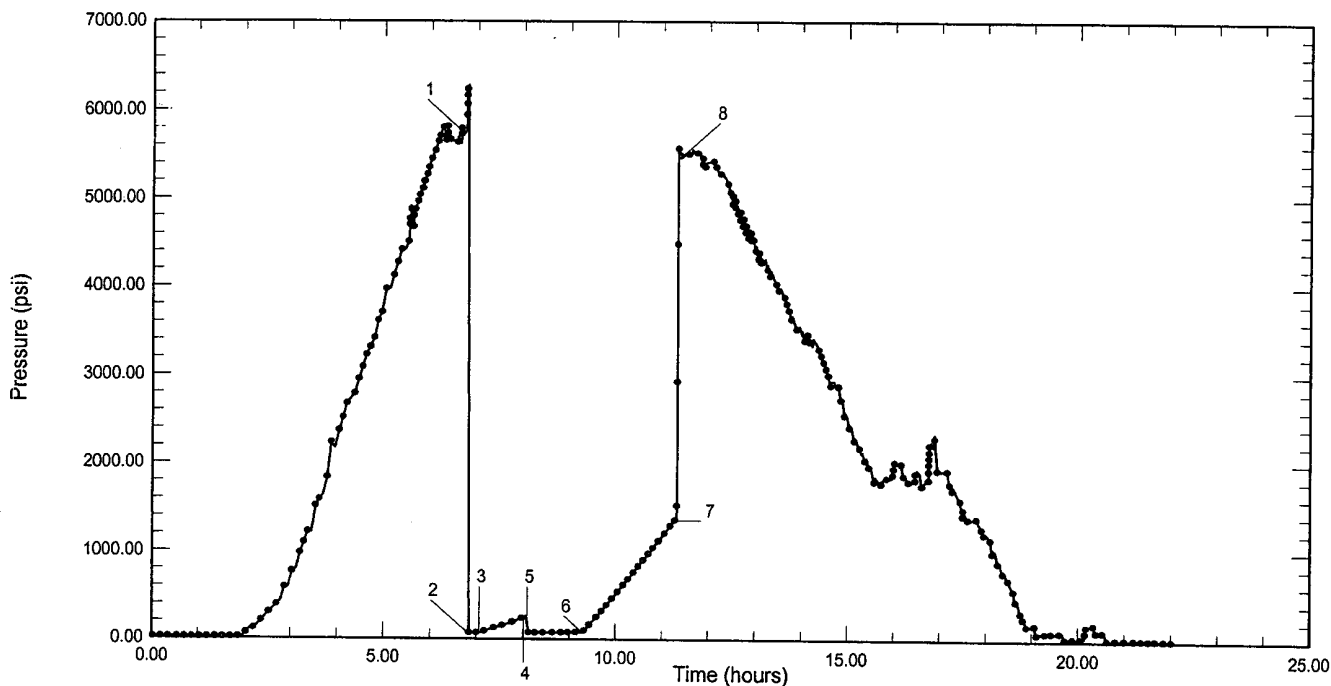
Gauge ID : SLS-704

Schlumberger

Label Point Data COG Operating Openhole DST

Hopi 35 State Com. 1
Wildcat

11001135
12-May-05



Label Point / Comments	Date (dd-mmm-yy)	Time (hh:mm:ss)	Gauge ET (hours)	BHP (psia)	Rate (0)
Label Point Summary					
1) Hydrostatic Pressure	12-May-05	16:10:39	6.678	5745.83	0
2) Start Flow	12-May-05	16:19:06	6.818	64.35	1
3) End Flow & Start Shut-in	12-May-05	16:33:30	7.058	68.43	0
) End Flow & Start Shut-in	12-May-05	17:31:12	8.020	249.24	0
5) Start Flow	12-May-05	17:35:51	8.098	69.70	1
6) End Flow & Start Shut-in	12-May-05	18:46:57	9.283	78.18	0
7) End Shut-in	12-May-05	20:46:36	11.277	1353.65	0
8) Hydrostatic Pressure	12-May-05	20:55:03	11.418	5490.80	0

Schlumberger**Gauge Data
COG Operating
Openhole DST**

Hopi 35 State Com. 1

Gauge Serial # SLSR-704

11001135

Wildcat

May 12, 2005

Date (dd-mmm-yy)	Time (hh:mm:ss)	Elapsed Time (hrs)	BHP (psia)	BHT (Deg F)	Comments
Initial Flow					
12-May-05	16:33:30	7.05833	68.430	158.27	
12-May-05	16:52:51	7.38083	124.422	159.62	
12-May-05	17:12:15	7.70417	179.379	160.41	
Initial Shut-in					
12-May-05	16:33:30	7.05833	68.430	158.27	
12-May-05	16:34:12	7.07000	68.640	158.31	
12-May-05	16:44:39	7.24417	101.063	159.13	
12-May-05	16:56:12	7.43667	133.437	159.78	
12-May-05	17:07:24	7.62333	164.924	160.23	
12-May-05	17:19:27	7.82417	202.369	160.65	
Second Flow					
12-May-05	17:35:51	8.09750	69.698	161.08	
12-May-05	17:51:00	8.35000	71.790	160.59	
12-May-05	18:05:21	8.58917	71.917	160.65	
12-May-05	18:19:36	8.82667	74.065	160.79	
12-May-05	18:34:09	9.06917	76.325	160.92	
Second Shut-in					
12-May-05	18:46:57	9.28250	78.184	161.02	
12-May-05	18:47:03	9.28417	78.451	161.02	
12-May-05	18:58:00	9.46667	180.159	161.13	
12-May-05	19:10:24	9.67333	303.491	161.28	
12-May-05	19:20:30	9.84167	407.979	161.38	
12-May-05	19:32:42	10.04500	537.468	161.53	
12-May-05	19:46:00	10.26667	681.827	162.05	
12-May-05	19:56:21	10.43917	795.855	162.54	
12-May-05	20:08:48	10.64667	934.224	163.04	



Schlumberger

COG Operating Openhole DST

Hopi 35 State Com. 1

Gauge Serial # SLSR-704

11001135

Wildcat

12-May-05

Distribution List

2

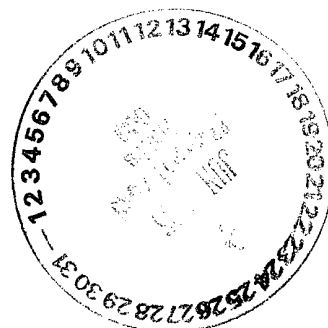
0

COG

550 W. Texas Ave.

Suite 1300

Midland TX 79701



ALL INTERPRETATIONS ARE OPINIONS BASED ON INFERENCES FROM ELECTRICAL OR OTHER MEASUREMENTS AND WE CANNOT, AND DO NOT GUARANTEE THE ACCURACY OR CORRECTNESS OF ANY INTERPRETATIONS, AND WE SHALL NOT, EXCEPT IN THE CASE OF GROSS OR WILLFUL NEGLIGENCE ON OUR PART, BE LIABLE OR RESPONSIBLE FOR ANY LOSS, COSTS, DAMAGES OR EXPENSES INCURRED OR SUSTAINED BY ANYONE RESULTING FROM ANY INTERPRETATION MADE BY ANY OF OUR OFFICERS, AGENTS OR EMPLOYEES. THESE INTERPRETATIONS ARE ALSO SUBJECT TO CLAUSE 4 OF OUR GENERAL TERMS AND CONDITIONS AS SET OUT IN OUR CURRENT PRICE SCHEDULE.

Schlumberger

Gauge Comparison

COG Operating

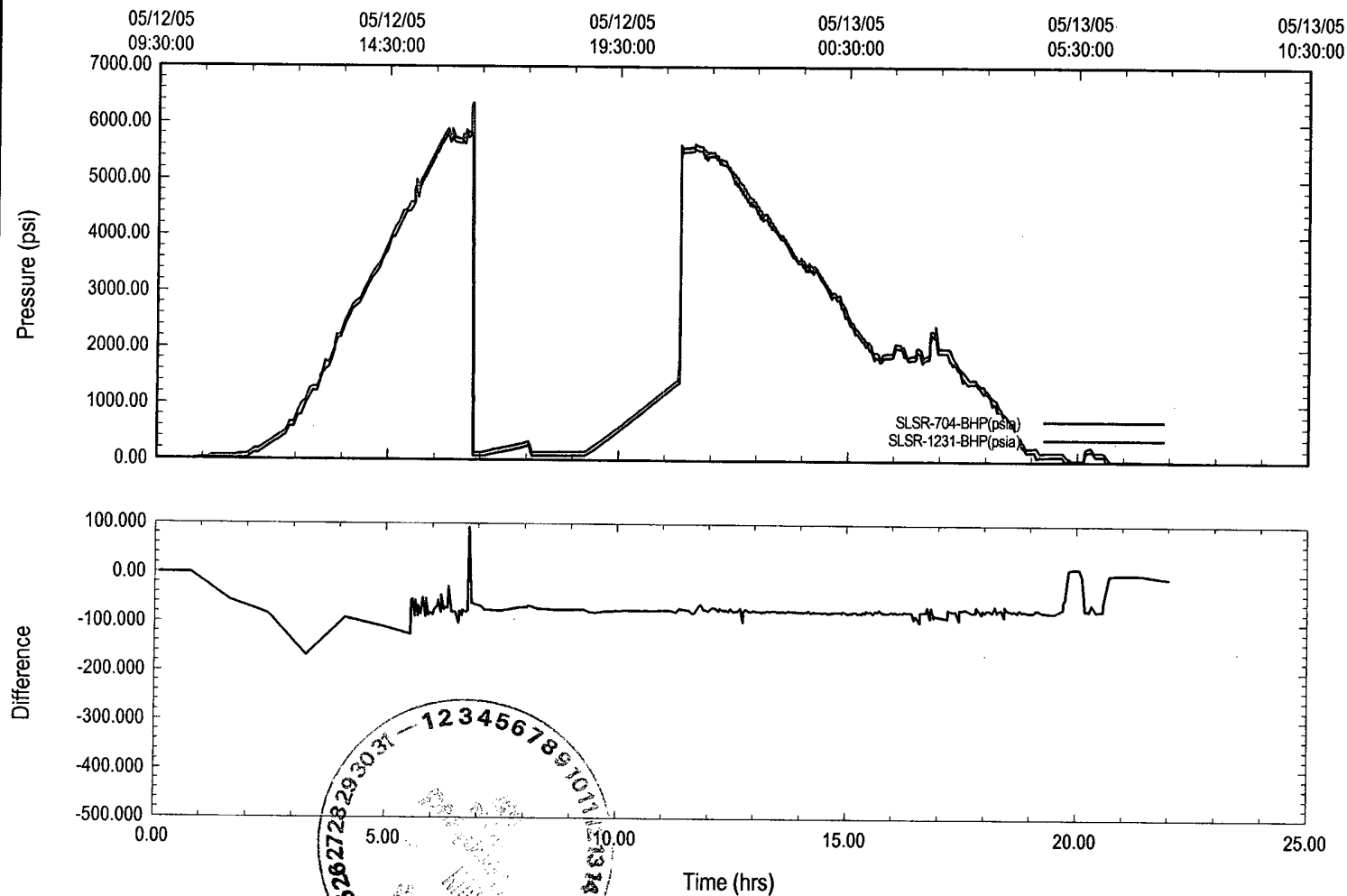
Openhole DST

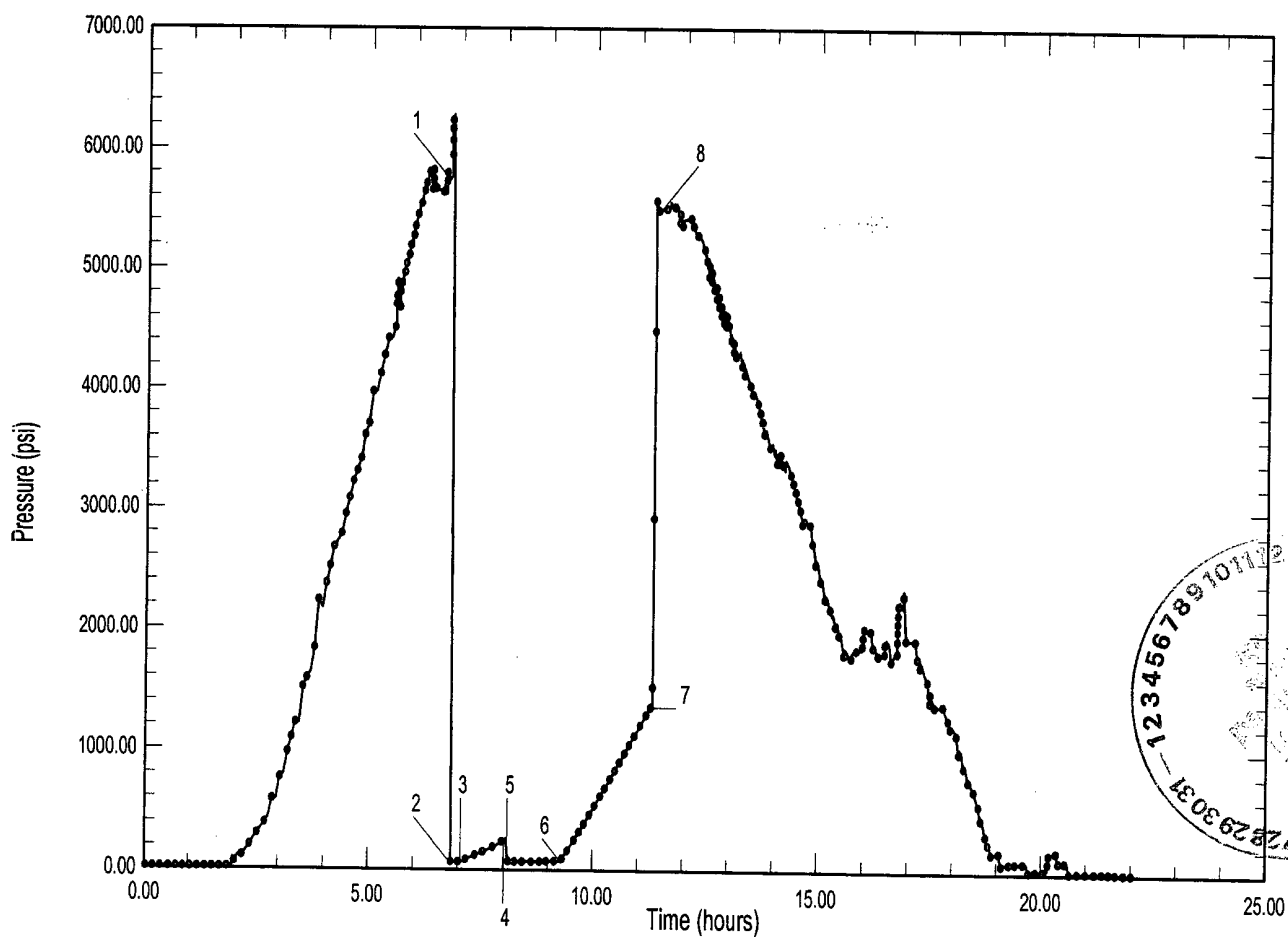
Hopi 35 State Com. 1

Wildcat

11001135

12-May-05



COG Operating**Openhole DST****Hopi 35 State Com. - 1****Wildcat****Rig : Patterson 634****Eddy - New Mexico****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