

BAKER

SERVICE TOOLS

Hanson Operating Co., Inc.

Operator

Junction Federal #1

Well Name and No.

4

DST No

FLUID SAMPLES DURING JETTING

00:39 - 02:00	Drilling mud	
02:00	Water cut mud	52,000 ppm Cl.
02:30		57,000 ppm Cl.
03:00		57,000 ppm Cl.
03:30		55,000 ppm Cl.
04:00		51,000 ppm Cl.
04:30		54,000 ppm Cl.
05:00	Surface water	52,000 ppm Cl.
05:30		53,000 ppm Cl.
06:00		65,000 ppm Cl.
06:30		65,000 ppm Cl.

First part of recovery was jetted to reserve pit until it turned to water then it was turned to the test tank and 124 barrels was jetted.

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TIME	CHOKESIZE	SURFACE PRESSURE	FLOW RATE MCF/D	REMARKS
18:12 Hr.	.25"			Opened tool; slid to bottom:
18:20	0 Min	Good Blow		Re-opened for flow #1:
	5	10.5 oz		
	10	5.0 psi		
	15	7.5		
	20	9.75		
	25	10.5		
18:50	30	9.5		Closed for shut-in #1:
20:22	0			Opened for flow #2:
	5	1.5 psi		
	10	0.75		
	15	Dead		
23:30				Start in with coiled tubing:
00:39				Jet mud to reserve pit:
02:00				Water cut mud to surface:
04:30				Sulfur water to surface:
06:30				Start out with coiled tubing:
08:27				Closed for shut-in #2:
09:58				Unset packers; jarred tools:
11:15				Start out of hole:
12:45				Reversed out recovery:
16:00				Out of hole:

BAKER SERVICE TOOLS

SAMPLER REPORT

Company Hanson Operating Co., Inc. Date 3/18/93
Well Name & No. Junction Federal #1 Ticket No. 258-79730
County Roosevelt State New Mexico
Test Interval 11890' - 11935' DST No. 4

Pressure in Sampler: 55 _____ psig
Total Volume of Sampler: 2600 _____ cc.
Total Volume of Sample: 2550 _____ cc.
Oil: None _____ cc.
Water: 2550 _____ cc.
Mud: None _____ cc.
Gas: 0.01 _____ cu. ft.
Other: None _____

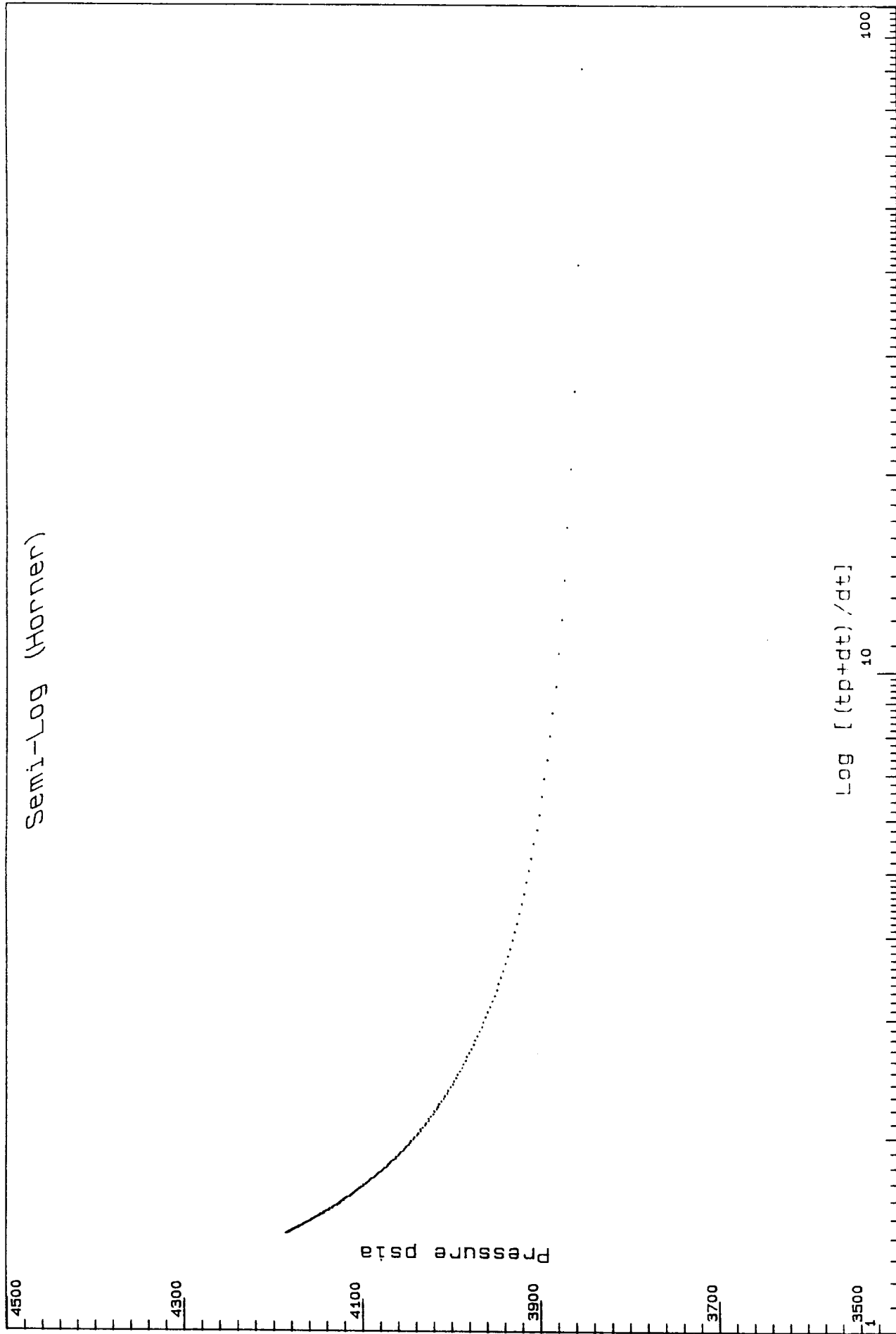
Sample RW: .081 @ 60 Deg F/.03 @ Res Temp/65,000 ppm Cl. titrated.

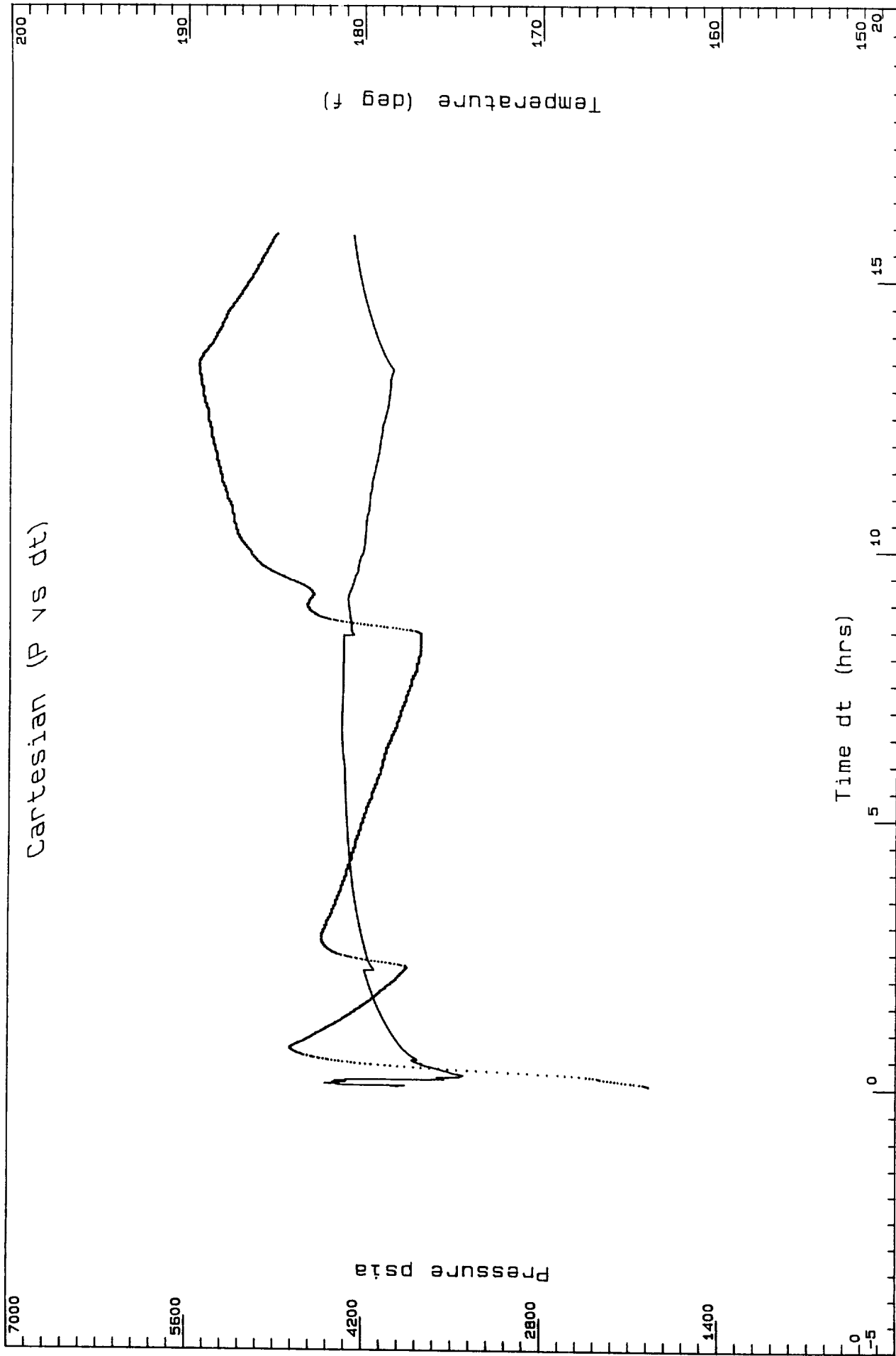
Resistivity

Make Up Water _____ @ _____ °F of Chloride Content _____ ppm.
Mud Pit Sample .071 @ 60 °F of Chloride Content 82,000 ppm.
Gas/Oil Ratio _____ Gravity _____ °API @ _____ °F

Where was sample drained On Location.

Remarks: _____

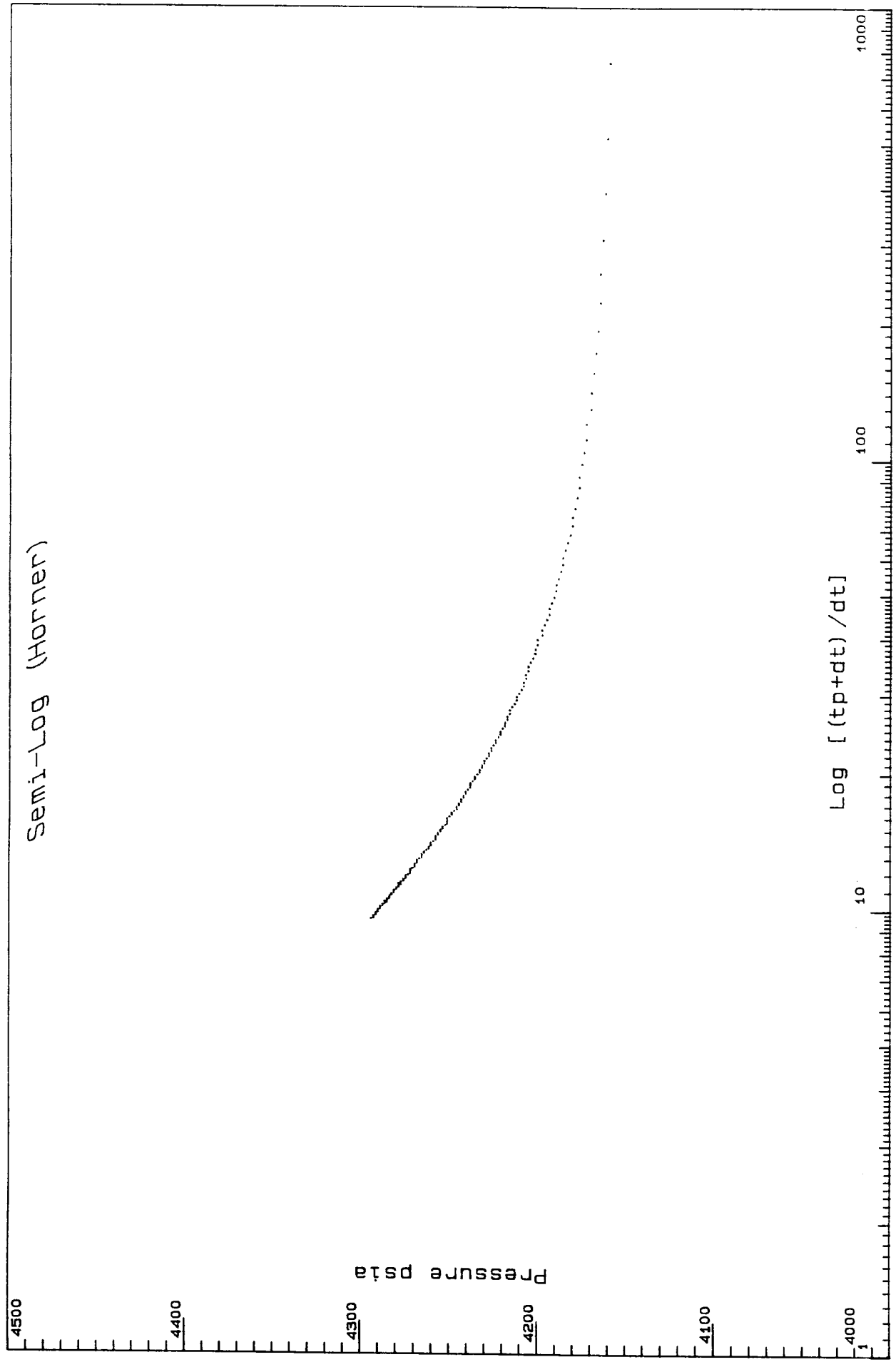




Company: Hanson Operating Co.
Well: Junction Federal #1, DST #4
Field: Wildcat

... Temperature
___ Pressure

Date: 03/18/1993



Shut-in #2

BAKER SERVICE TOOLS

Hanson Operating Co., Inc.
Operator

Junction Federal #1
Well Name and No

All
DST No

Hanson Operating Co., Inc. (5)
Box 1515
Roswell NM 88202-1515

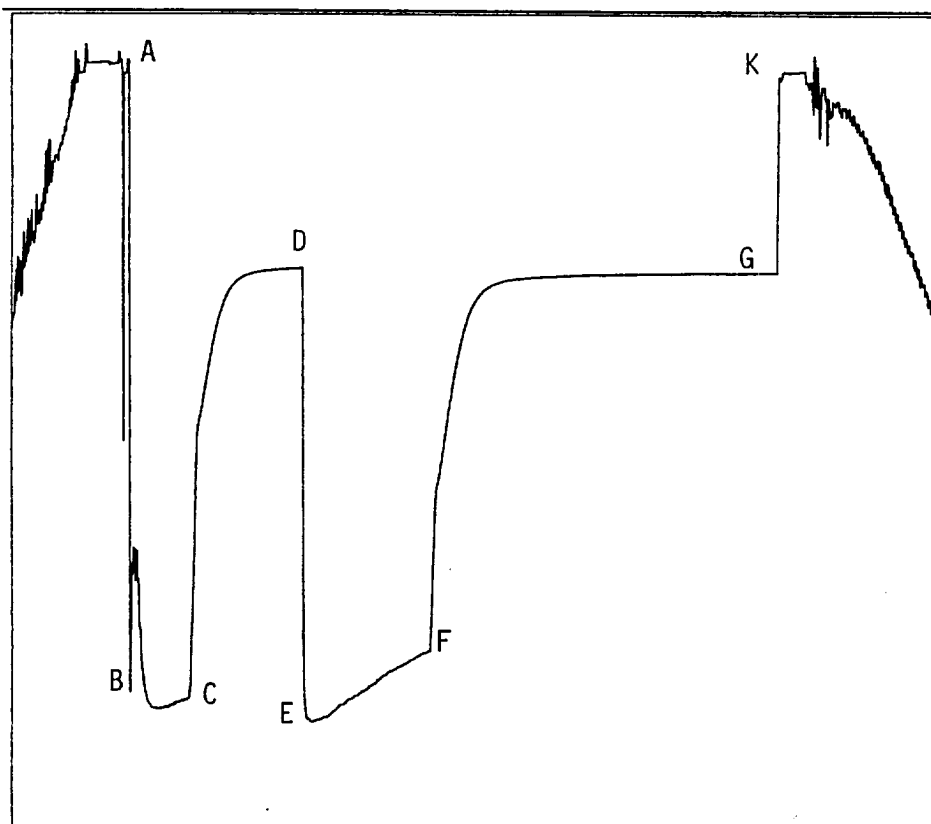
Phone (303) 790-2705

**BAKER
SERVICE TOOLS**56 Inverness Drive East
Englewood, CO 80112

Contractor Ziadrill
 Rig No. 2
 Spot 1650' FSL & 1650' FWL
 Sec. 17
 Twp. 8 S
 Rng. 37 E
 Field Wildcat
 County Roosevelt
 State New Mexico
 Elevation --
 Formation Bough "C"

Surface Choke 1/4"
 Bottom Choke 3/4"
 Hole Size 7 7/8"
 Core Hole Size None
 DP Size & Wt. 4 1/2" 16.60
 Wt. Pipe 4 1/2" 20.00
 I.D. of DC 2 1/4"
 Length of DC 736'
 Total Depth 9480'
 Type Test Conventional
 Interval 9414' - 9480'

Mud Type --
 Weight 9.4
 Viscosity 39
 Water Loss --
 Filter Cake --
 Resistivity .074 @ 60 °F
74,000 Ppm. NaCl
 B.H.T. 150.7 °F
 Co. Rep. David Sweeney
 Tester Berry Fisher
 Baker Dist. Hobbs NM



	REPORTED	CORRECTED	
Opened Tool @	18:48		hrs.
Flow No. 1	30	30	min.
Shut-In No. 1	60	59	min.
Flow No. 2	65	66	min.
Shut-In No. 2	180	180	min.
Flow No. 3	None Taken		min.
Shut-In No. 3	"	"	min.

Recorder Type STI 8000
 No. 01190 Cap. 7500 psi
 Depth 9425 feet
 Inside _____ Clock _____
 Outside x Range _____ hrs.

Initial Hydrostatic	A	4694
Final Hydrostatic	K	4649
Initial Flow	B	980
Final Initial Flow	C	811
Initial Shut-In	D	3434
Second Initial Flow	E	827
Second Final Flow	F	1106
Second Shut-In	G	3415
Third Initial Flow	H	
Third Final Flow	I	
Third Shut-In	J	

Pipe Recovery:

Reverse circulated:
 2988' Oil & emulsion
 (samples sent to lab for analysis)

Gravity:

Top:

47.0 Deg API @ 60 Deg F

Resistivity:

Bottom:

.074 @ 60 Deg F/.03 @ Res Temp/74,000 ppm Cl. titrated.

HANSON OPERATING CO., INC.
TICKET #258-79750JUNCTION FEDERAL #1
BOUGH "C" ~ 9414' - 9480'DST #5
03-24-1993

BAKER

SERVICE TOOLS

Hanson Operating Co., Inc.
Operator

Junction Federal #1
Well Name and No

5
DST No

This analysis has been made on the basis of the liquid recovery and equations applicable to liquid recovery tests, the Horner extrapolation method and comparative log/log analysis.

The pressure extrapolation plot indicates a maximum initial reservoir pressure of 3475 psi and a maximum final reservoir pressure of 3434 psi which is equivalent to a subsurface pressure gradient of 0.364 psi/ft at gauge depth. The difference between the extrapolated initial and final reservoir pressures (41 psi) is not considered significant. The character of the build-up curves on the semi-log plots indicates the presence of double porosity within the tested interval.

The Average Production Rate which was used in this analysis, 468.0 barrels/day, has been calculated from analysis of the flow pressure curves using a liquid gradient for the recovered oil of 0.343 psi/ft.

For purposes of this analysis a Pay Thickness of 10 feet and an Average Porosity of 7% have been estimated.

The calculated Skin Factors indicate significant well-bore damage was present at the time of this formation test.

The evaluation criteria used in the drillstem test analysis system indicate this is a good mechanical test and the results obtained in this analysis should be reliable within reasonable limits relative to the assumptions which have been made.