

HALLIBURTON DATA LOG

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COMPUFAC Ver. 1.54 4/18/91

Customer:	BLACKWOOD-NICHOLS CO., LTD.	Ticket Number:	077155.2
Contractor:	NONE	Permit Number:	E-178-1
Lead:	MIDDLE MESA CWC #1	Well #:	CWD #1
Location:	NE BLANCE UNIT	Sec.:	30
Field:	NEED	Twp.:	31N
Country:	USA	Rng.:	7W
County:	SAN JUAN	State:	NM
Job Type:	INJECTION TEST		

WELL DESCRIPTION

WOLE DEPTH	TYPE	SIZE	HEIGHT
0 - 5723	CASING	9 5/8"	40#
KB - 6000	LINER	7"	26#
KB - 7060	TUBING	3 1/2"	9.3#
-	-	-	-
-	-	-	-

PERF DEPTH	NUMBER	SIZE	FORMATION
8064 - 8300	-	-	-
-	-	-	-

Open Hole I.D.:		Total Depth:	PBTD-8000
Zone #:		Formation:	U & L MORRISON. BLUFF. ENTR
ADA			
Packer Depth:	OTIS	Packer Type:	7" PL
Baffle/MBO Depth:		Baffle Size:	
BHST:		Free Gradient:	

STIMULATION DATA

	TYPE	CONC/RATIO	VOLUME
PrePad:			
Pad:			
Acid:			
Sand Laden:			
Flush:	PRODUCED WATER		
Overflush:			
Total:			
N2:			
CO2:			

RECEIVED
MAY 01 1991
OIL CON. DIV
DIST. 3

PROPPANT TYPE	SIZE	QUANTITY	MAX CONC.

Avg. RATE: _____ Avg. PRESSURE: _____ Avg. HWP: _____

Comments: START INJECTION TEST AT 2:50 PM
END INJECTION TEST AT 3:15 PM UNIT 10004

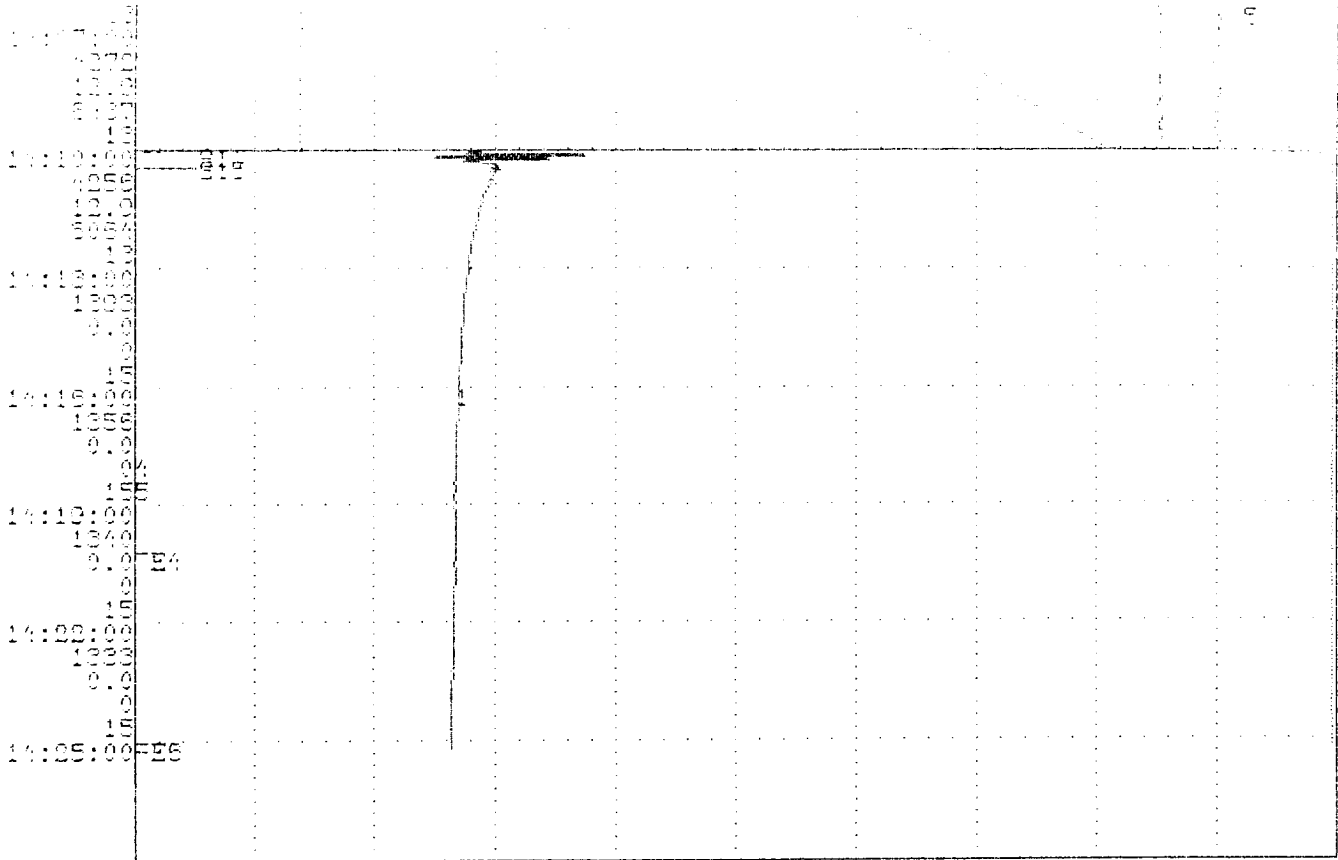
STAGE/EVENT SUMMARY

Customer: BLACKHOCK-NICHOLS CO., LTD.
Job Type: INJECTION TEST

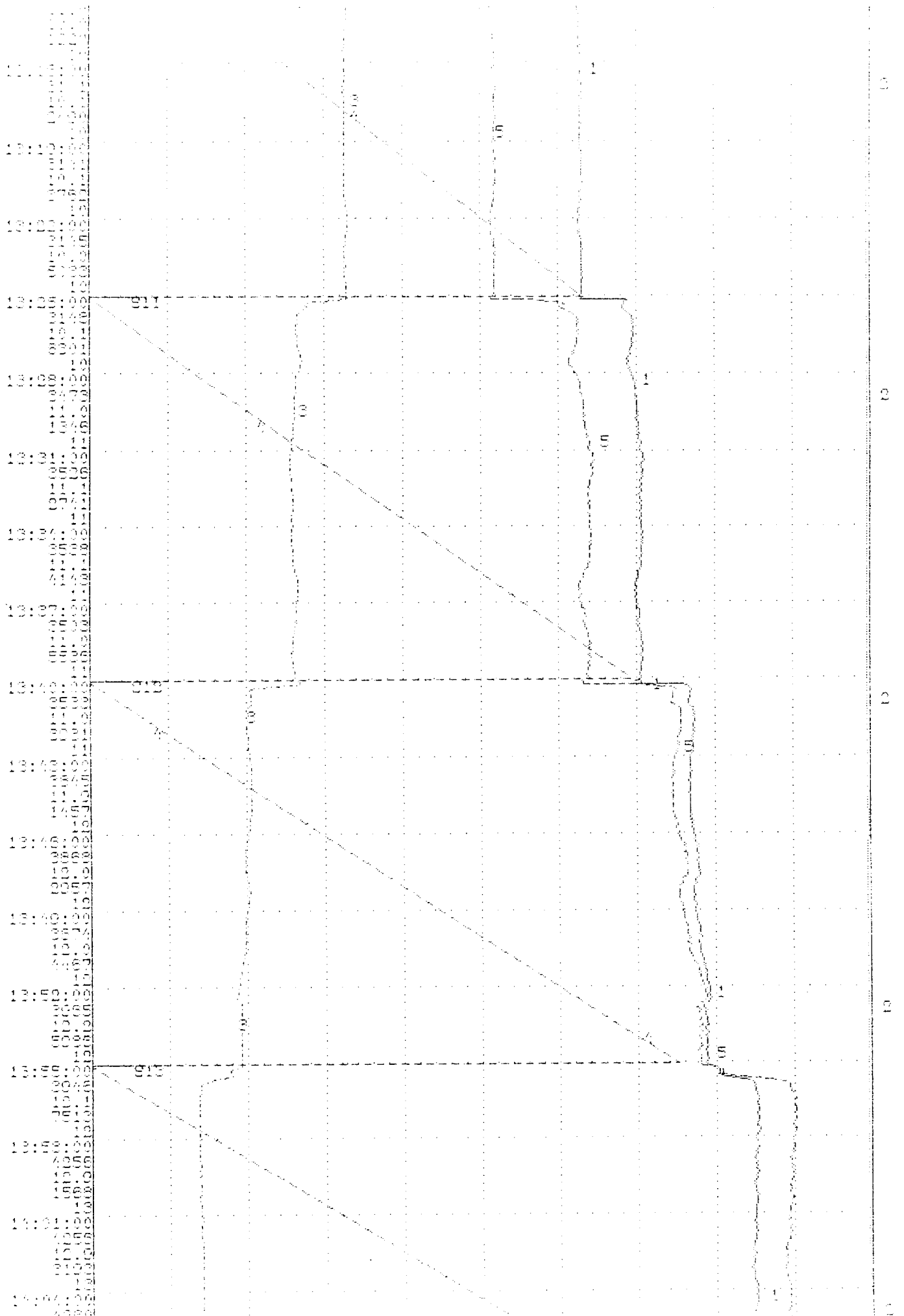
Date: 4/18/01
Ticket #: 007155.2

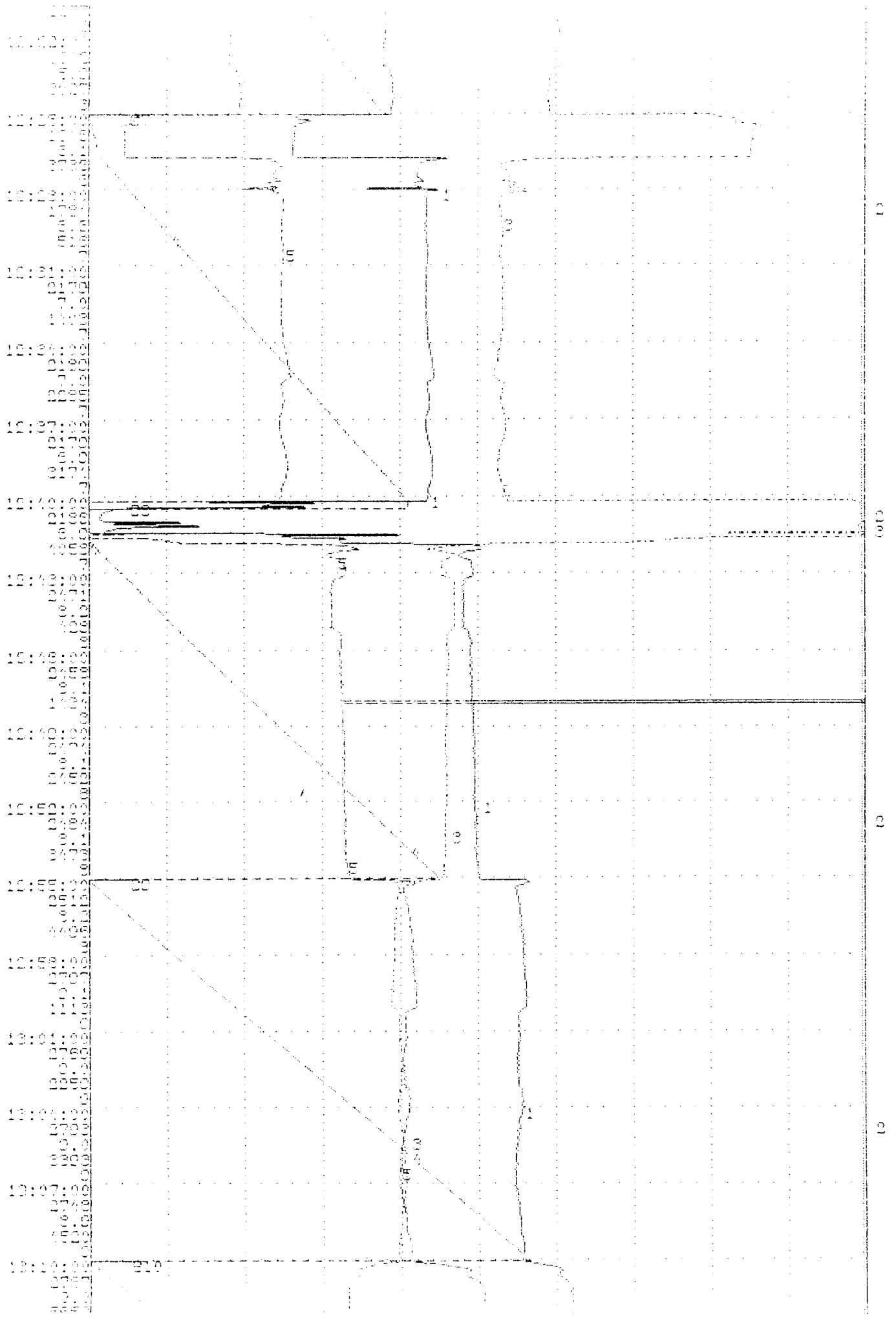
***** 10:49:46 Start Job *****						
10:51:49	Event #2	Zero Flow Totals				
10:53:49	Event #3	Zero Flow Totals				
***** 10:55:00 Stage #1 Establish Rate *****						
CAPTURE DATA		Tubing_Press	-	981 PSI	Clean Rate	- 0.1 BPM
STAGE SUMMARY						
Tubing_Press	-	995 PSI	Annulus_Press	-	9 PSI	Max Clean Rate - 1.1 BPM
Stg Clean Total	-	662 GAL	Clean Total	-	664.5 GAL	UMP - 20
***** 11:10:01 Stage #2 Establish Rate *****						
CAPTURE DATA		Tubing_Press	-	995 PSI	Clean Rate	- 1.1 BPM
STAGE SUMMARY						
Tubing_Press	-	1109 PSI	Annulus_Press	-	9 PSI	Max Clean Rate - 2.0 BPM
Stg Clean Total	-	1049 GAL	Clean Total	-	1010.1 GAL	UMP - 37
***** 11:25:02 Stage #3 Establish Rate *****						
CAPTURE DATA		Tubing_Press	-	1109 PSI	Clean Rate	- 2.1 BPM
STAGE SUMMARY						
Tubing_Press	-	1279 PSI	Annulus_Press	-	5 PSI	Max Clean Rate - 3.2 BPM
Stg Clean Total	-	1022 GAL	Clean Total	-	995.1 GAL	UMP - 30
***** 11:40:01 Stage #4 Establish Rate *****						
CAPTURE DATA		Tubing_Press	-	1279 PSI	Clean Rate	- 3.1 BPM
STAGE SUMMARY						
Tubing_Press	-	1515 PSI	Annulus_Press	-	19 PSI	Max Clean Rate - 4.2 BPM
Stg Clean Total	-	2577 GAL	Clean Total	-	2412.9 GAL	UMP - 154
***** 11:55:10 Stage #5 Establish Rate *****						
CAPTURE DATA		Tubing_Press	-	1515 PSI	Clean Rate	- 4.2 BPM
STAGE SUMMARY						
Tubing_Press	-	1652 PSI	Annulus_Press	-	14 PSI	Max Clean Rate - 5.3 BPM
Stg Clean Total	-	3105 GAL	Clean Total	-	2849.9 GAL	UMP - 130
***** 12:10:02 Stage #6 Establish Rate *****						
CAPTURE DATA		Tubing_Press	-	1652 PSI	Clean Rate	- 4.9 BPM
STAGE SUMMARY						
Tubing_Press	-	1849 PSI	Annulus_Press	-	15 PSI	Max Clean Rate - 7.4 BPM
Stg Clean Total	-	3909 GAL	Clean Total	-	3552.2 GAL	UMP - 280
***** 12:25:01 Stage #7 Establish Rate *****						
CAPTURE DATA		Tubing_Press	-	1849 PSI	Clean Rate	- 5.1 BPM
STAGE SUMMARY						
Tubing_Press	-	201 PSI	Annulus_Press	-	14 PSI	Max Clean Rate - 7.2 BPM
Stg Clean Total	-	4119 GAL	Clean Total	-	3747.5 GAL	UMP - 9

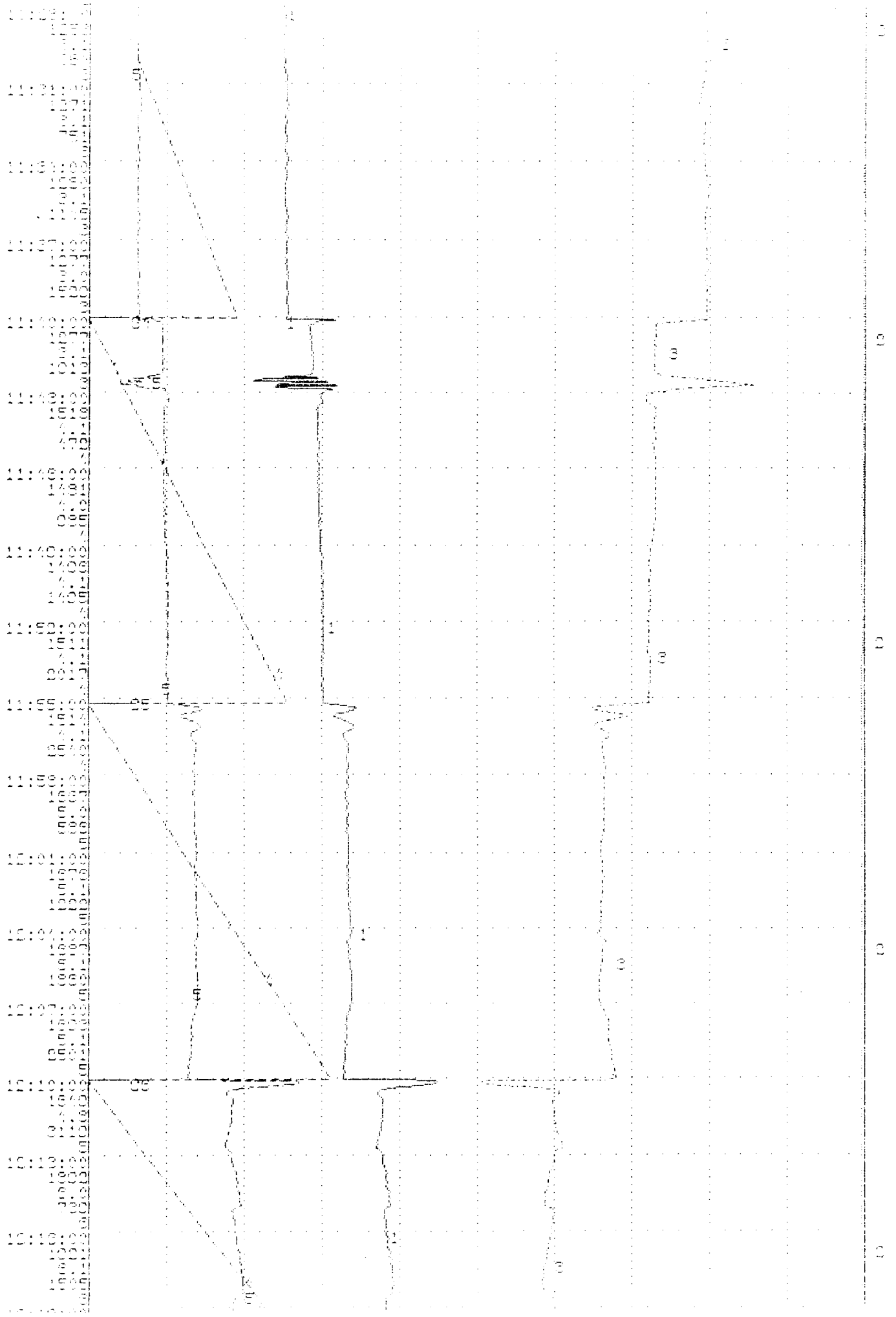
***** 12/10/02 Stage #9 Establish Rate *****						
CAPTURE DATA		Tubing_Press	-	291 PSI	Clean Rate	- 9.0 BPM
				STAGE SUMMARY		
Tubing_Press	-	2509 PSI	Annulus_Press	-	14 PSI	Max Clean Rate - 9.5 BPM
Stg Clean Total	-	4573 GAL	Clean Total	-	21995.7 GAL	WHP - 502
***** 12/15/02 Stage #9 Establish Rate *****						
CAPTURE DATA		Tubing_Press	-	2509 PSI	Clean Rate	- 9.2 BPM
				STAGE SUMMARY		
Tubing_Press	-	2799 PSI	Annulus_Press	-	17 PSI	Max Clean Rate - 9.2 BPM
Stg Clean Total	-	5594 GAL	Clean Total	-	27679.9 GAL	WHP - 517
***** 12/16/02 Stage #10 Establish Rate *****						
CAPTURE DATA		Tubing_Press	-	2799 PSI	Clean Rate	- 9.0 BPM
				STAGE SUMMARY		
Tubing_Press	-	3147 PSI	Annulus_Press	-	16 PSI	Max Clean Rate - 10.1 BPM
Stg Clean Total	-	6330 GAL	Clean Total	-	34069.2 GAL	WHP - 775
***** 12/25/01 Stage #11 Establish Rate *****						
CAPTURE DATA		Tubing_Press	-	3147 PSI	Clean Rate	- 10.1 BPM
				STAGE SUMMARY		
Tubing_Press	-	3511 PSI	Annulus_Press	-	16 PSI	Max Clean Rate - 11.2 BPM
Stg Clean Total	-	6999 GAL	Clean Total	-	40979.8 GAL	WHP - 949
***** 12/10/02 Stage #12 Establish Rate *****						
CAPTURE DATA		Tubing_Press	-	3511 PSI	Clean Rate	- 11.0 BPM
				STAGE SUMMARY		
Tubing_Press	-	3940 PSI	Annulus_Press	-	16 PSI	Max Clean Rate - 12.2 BPM
Stg Clean Total	-	7555 GAL	Clean Total	-	46539.5 GAL	WHP - 1157
***** 12/15/02 Stage #13 Establish Rate *****						
CAPTURE DATA		Tubing_Press	-	3940 PSI	Clean Rate	- 12.1 BPM
				STAGE SUMMARY		
Tubing_Press	-	3951 PSI	Annulus_Press	-	16 PSI	Max Clean Rate - 12.0 BPM
Stg Clean Total	-	9160 GAL	Clean Total	-	53639.0 GAL	WHP - 995
***** 12/16/01 Stage #14 Stop Pumping *****						
				STAGE SUMMARY		
Tubing_Press	-	1497 PSI	Annulus_Press	-	17 PSI	Max Clean Rate - 2.0 BPM
Stg Clean Total	-	0 GAL	Clean Total	-	55639.0 GAL	WHP - 0



0.10







Legend for Slide

1. Time
2. Tubing_Proc PSI
3. Clean Rate BPM
4. Stg Clean Total GAL
5. Stage Number

