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WELL COMPLETION RECORD

(Form 8 - Revised 4/02)

Ohio Department of Natural Resources
Division of Mineral Resources Management
1855 Fountain Sq. Ct. H-3, Columbus, OH 43224

This report is due in duplicate 30 days after completion of the well. If the permit has expired and the well was not drilled, check the box below, sign on reverse side, and return to our office within 30 days after expiration.

<p>1. Owner #: 1634</p> <p>2. Owner name, address and telephone numbers: Northwood Energy Corporation 941 Chatham Lane, Suite 100 Columbus, Ohio 43221 (614) 457-1024</p> <p>7. Type of Well: Oil & Gas</p> <p>9. X: 2256377 Y: 607792</p> <p>10. Quad: Caldwell South</p> <p>11. Section: 36 12. Lot:</p> <p>13. Fraction: 14. Qtr. Twp:</p> <p>15. Tract:</p> <p>16. Allot:</p> <p>17. Well #: 3</p> <p>18. Lease Name: Morris, Donald W.</p> <p>19. PTD: 5800'</p> <p>20. Drilling Unit: 277ac.</p>	<p>3. API #: 34-121-2-4250-00-00</p> <p>4. Type of Permit: Drill New Well</p> <p>5. County: Noble</p> <p>6. Civil Township: Sharon Twp.</p> <p>8. Footage: 505' SL & 775' EL of Sec 36</p> <p>21. Date drilling commenced: 1/6/08</p> <p>22. Date drilling completed: 1/15/08</p> <p>23. Date put into production: 5/1/08</p> <p>24. Date plugged if dry:</p> <p>25. Producing formation: Clinton Ss/Medina Ss</p> <p>26. Deepest formation: QUEENSTON SHALE</p> <p>27. Driller's total depth: 5849'</p> <p>28. Logger's total depth: 5858'</p> <p>29. Lost hole at _____ feet.</p>																																				
<p>30. Type of tools:</p> <p><input type="checkbox"/> Cable <input type="checkbox"/> Air Rotary</p> <p><input type="checkbox"/> Fluid Rotary <input checked="" type="checkbox"/> Air/Fluid Rotary</p> <p><input type="checkbox"/> Cable/Air Rotary <input type="checkbox"/> Service Rig</p> <p><input type="checkbox"/> Cable/Fluid Rotary <input type="checkbox"/> Cable/Air Rotary/Fluid Rotary</p>																																					
<p>31. Type of completion: <input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Through Casing <input type="checkbox"/> Slotted Liner</p> <p>32. Elevation: Ground Level 961' Derrick Floor 967' Kelly Bushing 969'</p>																																					
<p>33. Perforated intervals and number of slots: Clinton: 5556'-5560'--12 Shots, 5568'-5572'--12 Shots, 5584'-5598'--42 Shots, 5610'-5614'--12 Shots, 5616'-5624'--24 Shots, 5636'-5644'--24 Shots. Medina: 5700'-5716'--48 Shots.</p>																																					
<p>34. Method of shot, acid, or fracture treatments, production tests, pressures, etc.: 2 Stages: Medina(1st), Clinton(2nd)</p> <table style="width:100%; border-collapse: collapse;"> <tr> <td>SHOT:</td> <td>ACID: 1st: 0 gal.</td> <td>FLUID: 1st: 55,000 gal.</td> <td>SAND: 1st: 30,000</td> <td>PRESSURES (psi): 1st</td> <td>2nd</td> </tr> <tr> <td>Lbs. _____</td> <td>2nd: 500 gal.</td> <td>2nd: 93,375 gal.</td> <td>Sx. 300</td> <td>Breakdown</td> <td>300 PSI 944 PSI</td> </tr> <tr> <td>Qts. _____</td> <td>Type: <u>HCL</u></td> <td></td> <td>2nd: 50,000</td> <td>ATP</td> <td>584 PSI 1743 PSI</td> </tr> <tr> <td>Type: _____</td> <td>Percent: <u>15%</u></td> <td>Bbl. _____</td> <td>Sx. 500</td> <td>ISIP</td> <td>100 PSI 525 PSI</td> </tr> <tr> <td></td> <td>CO2: _____ ton</td> <td></td> <td></td> <td>5 min. SIP</td> <td>N/A PSI 400 PSI</td> </tr> <tr> <td></td> <td>N2: _____ MSCF</td> <td></td> <td></td> <td>Avg. Rate</td> <td>23 BPM 39 BPM</td> </tr> </table>		SHOT:	ACID: 1st: 0 gal.	FLUID: 1st: 55,000 gal.	SAND: 1st: 30,000	PRESSURES (psi): 1st	2nd	Lbs. _____	2nd: 500 gal.	2nd: 93,375 gal.	Sx. 300	Breakdown	300 PSI 944 PSI	Qts. _____	Type: <u>HCL</u>		2nd: 50,000	ATP	584 PSI 1743 PSI	Type: _____	Percent: <u>15%</u>	Bbl. _____	Sx. 500	ISIP	100 PSI 525 PSI		CO2: _____ ton			5 min. SIP	N/A PSI 400 PSI		N2: _____ MSCF			Avg. Rate	23 BPM 39 BPM
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<p>35. Mouse hole plugged: <input type="checkbox"/> Yes <input type="checkbox"/> No _____ Sacks <input checked="" type="checkbox"/> NA</p> <p>Rat hole plugged: <input type="checkbox"/> Yes <input type="checkbox"/> No _____ Sacks <input checked="" type="checkbox"/> NA</p>																																					
<p>36. Amount of initial production per day: (MCF.) (Bbls.) (Bbls.)</p> <p>Natural: Gas Show Oil 0 BBL. Brine _____</p> <p>After Treatment: Gas 37 MCF Oil 0 BBL. Brine _____</p> <p>SERC Data: Number of Tanks: 2 Maximum Storage Capacity of all Tanks (bbls.): 310</p>																																					
<p>37. Casing and tubing record: Please indicate which is used (cement or mudding)</p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Type</th> <th>Size</th> <th>Feet Used in Drilling</th> <th>Amount of Cement or Mud</th> <th>Feet Left in Well</th> </tr> </thead> <tbody> <tr> <td>Conductor/Drive Pipe:</td> <td><u>11 3/4"</u></td> <td><u>42'</u></td> <td><u>N/A</u></td> <td><u>42'</u></td> </tr> <tr> <td>Surface:</td> <td><u>8 5/8"</u></td> <td><u>1559'</u></td> <td><u>350 sks</u></td> <td><u>1559'</u></td> </tr> <tr> <td>Intermediate:</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Production:</td> <td><u>4 1/2"</u></td> <td><u>5834'</u></td> <td><u>310 sks</u></td> <td><u>5834'</u></td> </tr> <tr> <td>Tubing:</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Comments:</td> <td colspan="4"><u>2-stage cement tool set @ 2500', 165sks used in 1st stage and 145 sks used in 2nd stage.</u></td> </tr> </tbody> </table>		Type	Size	Feet Used in Drilling	Amount of Cement or Mud	Feet Left in Well	Conductor/Drive Pipe:	<u>11 3/4"</u>	<u>42'</u>	<u>N/A</u>	<u>42'</u>	Surface:	<u>8 5/8"</u>	<u>1559'</u>	<u>350 sks</u>	<u>1559'</u>	Intermediate:					Production:	<u>4 1/2"</u>	<u>5834'</u>	<u>310 sks</u>	<u>5834'</u>	Tubing:					Comments:	<u>2-stage cement tool set @ 2500', 165sks used in 1st stage and 145 sks used in 2nd stage.</u>				
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<p>38. Name of drilling contractor: FMS DRILLING INC.</p>																																					
<p>39. Type of electrical and/or radioactivity logs run: GAMMA RAY/NEUTRON/DENSITY/TEMP/IND/BOND/CCL (all logs must be submitted)</p>																																					
<p>40. Name of logging company: SUPERIOR WELL SERVICES</p>																																					
<p>DIVISION USE ONLY:</p> <p>Log Submitted: <u>Y/N</u> Well Class: <u>Pool</u> A/D: _____</p> <p>Confidential: <u>Y/N</u></p>																																					

FORMATION	TOP	BASE	Shows of oil, gas, fresh water, or brine; indicate depth or interval	REMARKS
Freshwater Strata				
Glacial Deposits				
Coal Seams				
1st Cow Run				
Buell Run				
2nd Cow Run				
Salt Sand				
Maxton Sand				
Keener Sand				
Big Injun Sand				
Squaw Sand				
Mississippian Shale				
Berea Sand	1776	1802		
Bedford Sand				
Bedford Sand				
2nd Berea				
Ohio Shale	1802			
Gantz	1972	2008		
Thirty Foot	2099	2136		
Gordon	2254	2314		
Cinnamon				
Big Lime	4029			
Sylvania				
Oriskany	4192	4216		
Bass Island				
Salina				
Salt Section				
Newburg				
Lockport				
Little Lime				
Packer Shell	5522	5546		
Stray Clinton	5556	5574		
Red Clinton	5583	5626		
White Clinton	5634	5647		
Medina	5700	5716		
Queenston	5716			
Utica				
Trenton Line				
Black River				
Gull River				
Glenwood Shale				
Knox Unconformity				
Beekmantown				
Rose Run				
Trempealeau/Cooper Ridge				
"B" Zone				
Krysik				
Kerbel FM				
Conasauga FM				
Rome FM				
Mt. Simon				
Granite Wash				
Middle Run				
Granite				

I (We) certify that the above information is true and correct, to the best of my knowledge:

SIGNATURE Bill Arnholt DATE: 6/20/2008
NAME (typed or printed) Bill Arnholt TITLE: Geologist
REPRESENTING Northwood Energy Corporation

Casing Ticket

API Well Number:

34-121-2-4250-00-00 ✓

Record of Casing, Cementing and Mudding

Well Owner: **NORTHWOOD ENERGY CORP**
 Lease Name: **MORRIS DONALD W 3** Well No. **3**
 County: **NOBLE** Township: **SHARON**
 Driller: **FMS DRILLING** Tool **Air Rotar**
 Refer Top **Ground Level** Lat: **39.665230** Long: **81.589290**

Permit Issued: **11/16/2007**
 Date Spudded: **01/07/2008**
 Date Completed:
 Inspector **BALL DAVID**
 AD Meets Requirements
 AD on Permit

Comments: **22'EPE**
Cement to surface, good returns 10 bbl

FLD *Hole 1 Field Entry CONDITION

Bot 42 Diam 14 Top 0 LENGTH Set Dt

String Comments Casing
 Condition, Weight and
 Cement Basket

BOC 0 TOC 0 DT_CM WITNESSED

CMT_CON INSPECTOR **BALL DAVID**

CLASS_CMT: SACKS YIELD WEIGHT

Cement 1

CLASS_CMT2: SACKS2 YIELD WEIGHT

Cement 2

RECEIVED

JAN 16 2008

DIVISION OF MINERAL
 RESOURCES MANAGEMENT

FLD *Conductor Pipe Field Entry CONDITION New

Bot 42 Diam 11.75 Top 0 LENGTH Set Dt 1/7/2008

String Comments Casing Condition, Weight and Cement Basket 32# left in hole

BOC 0 TOC 0 DT_CM WITNESSED

CMT_CON INSPECTOR BALL DAVID

CLASS_CMT: SACKS YIELD WEIGHT

Cement 1

CLASS_CMT2: SACKS2 YIELD WEIGHT

Cement 2

FLD *Hole 2 Field Entry CONDITION

Bot 1615 Diam 11 Top 42 LENGTH Set Dt

String Comments Casing Condition, Weight and Cement Basket

BOC 0 TOC 0 DT_CM WITNESSED

CMT_CON INSPECTOR BALL DAVID

CLASS_CMT: SACKS YIELD WEIGHT

Cement 1

CLASS_CMT2: SACKS2 YIELD WEIGHT

Cement 2

FLD *Surface Casing Field Entry CONDITION New

Bot 1559 Diam 8.625 Top 0 LENGTH Set Dt 1/9/2008

String Comments Casing Condition, Weight and Cement Basket 23#

BOC 1559 TOC 0 DT_CM WITNESSED

CMT_CON FORMATION CEMENTING, INC. INSPECTOR BALL DAVID

CLASS_CMT: Class A Cement SACKS 200 YIELD WEIGHT

Cement 1 3%cacl/hulls

CLASS_CMT2: Light/Standard Cement (50/50 C) SACKS2 150 YIELD WEIGHT 14.3

Cement 2 3%gel/3% cacl

Formation	TOP	BOT METH_	Producing	NonStandard	CMMNT
BIG INJUN SAND	1280	1400 I	No		soap on hole@92'

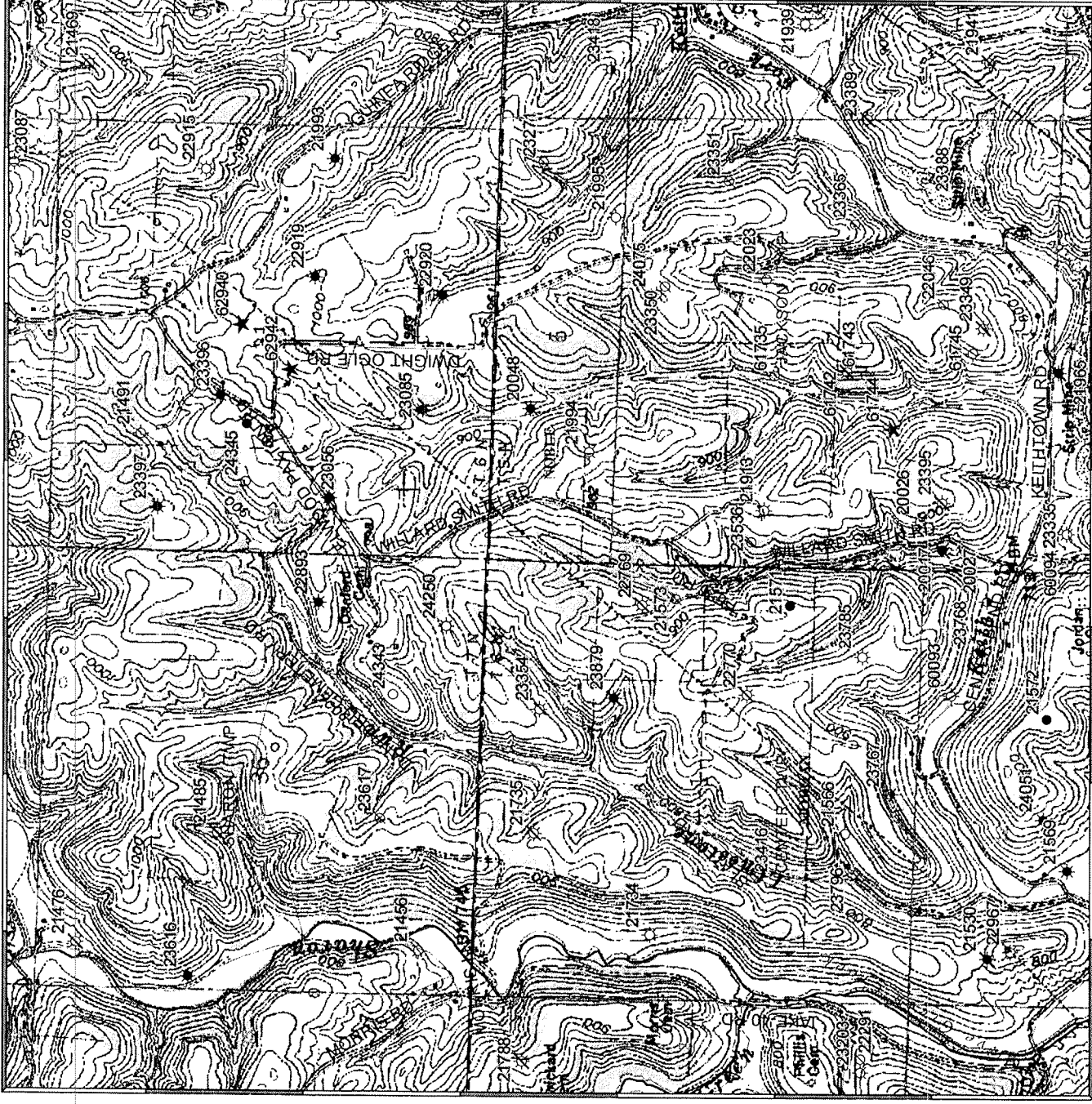
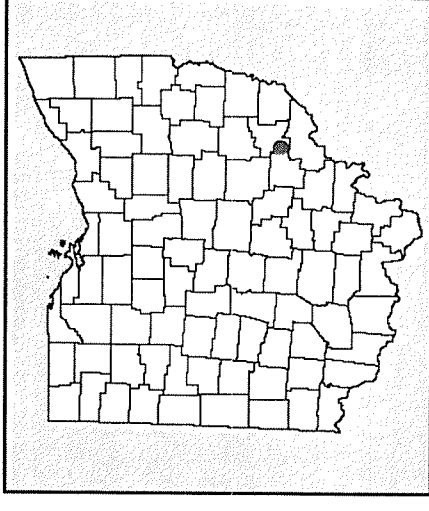
OIL AND GAS WELL SPOT MAP

Well Symbols

★	Unknown	●	Oil
⊖	Lost Hole	✱	Oil and Gas
⊕	Brine	✱	Oil w/Gas Show
⊙	Drilled Unknown status	●	Oil Show
○	Dry Hole	○	Permitted Location
⊙	Dry Gas Show	⊗	Plugged Brine
⊙	Dry Oil Show	⊗	Plugged Gas
⊙	Expired Permit	⊗	Plugged Injection
⊙	Gas	⊗	Plugged Oil
⊙	Gas Oil Show	⊗	Tool Lost in Hole
⊙	Gas Show	⊗	Solution Mining
⊙	Gas and Oil Show	⊗	Strat Test
⊙	Injection		
⊙	Observation		
⊙	Converted to Water		

Map provided by the Ohio Geological Survey
<http://www.ohiodnr.com/geosurvey>

INDEX MAP



DISCLAIMER

This product of the Ohio Department of Natural Resources, Division of Geological Survey is intended to provide general information only and should not be used for any other purposes. It is not intended for resale or to replace site-specific investigations. These data were compiled by the Ohio Division of Geological Survey, which reserves the publication rights to this material. If these data are used in the compilation of other data sets or maps for distribution or publication, this source must be referenced.





941 Chatham Lane, Suite 100
Columbus, Ohio 43221-2416
(614) 457-1024 Fax (614) 457-7295

Wednesday, February 15, 2012

Tom Tomastik
Division of Mineral Resources Management
2045 Morse Road, H-3
Columbus, Ohio 43229-6693

Re: Proposed SWIW, Section 36, Sharon Twp., Noble Co. Donald W. Morris # 3, Permit 4250

Dear Tom:

Please find enclosed injection test information related to the above well, performed on February 1, 2012 in the present of state inspector Mr. Dave Ball. Total volume injected was about 200 bbls with varying injection rates and injection pressures under the allowed pressure of 1280 psi.

We were in encouraged by the test and plan to move forward in getting together the necessary permit requirements.

If you need anything further, please advise.

Respectfully,

Northwood Energy Corporation

Bill Arnholt
Bill Arnholt



tom tomastik-morris 3- ltr-02-15-12



Producers Service Corporation
109 South Graham Street
Zanesville, OH 43701
(740) 454-6253
FAX (740) 454-0775
www.producersservicecorp.com

Disposal Well

Northwood Energy

Address/Phone

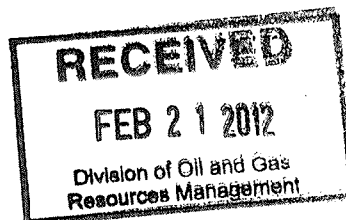
Treater: Jason Stanbery

2/1/2012

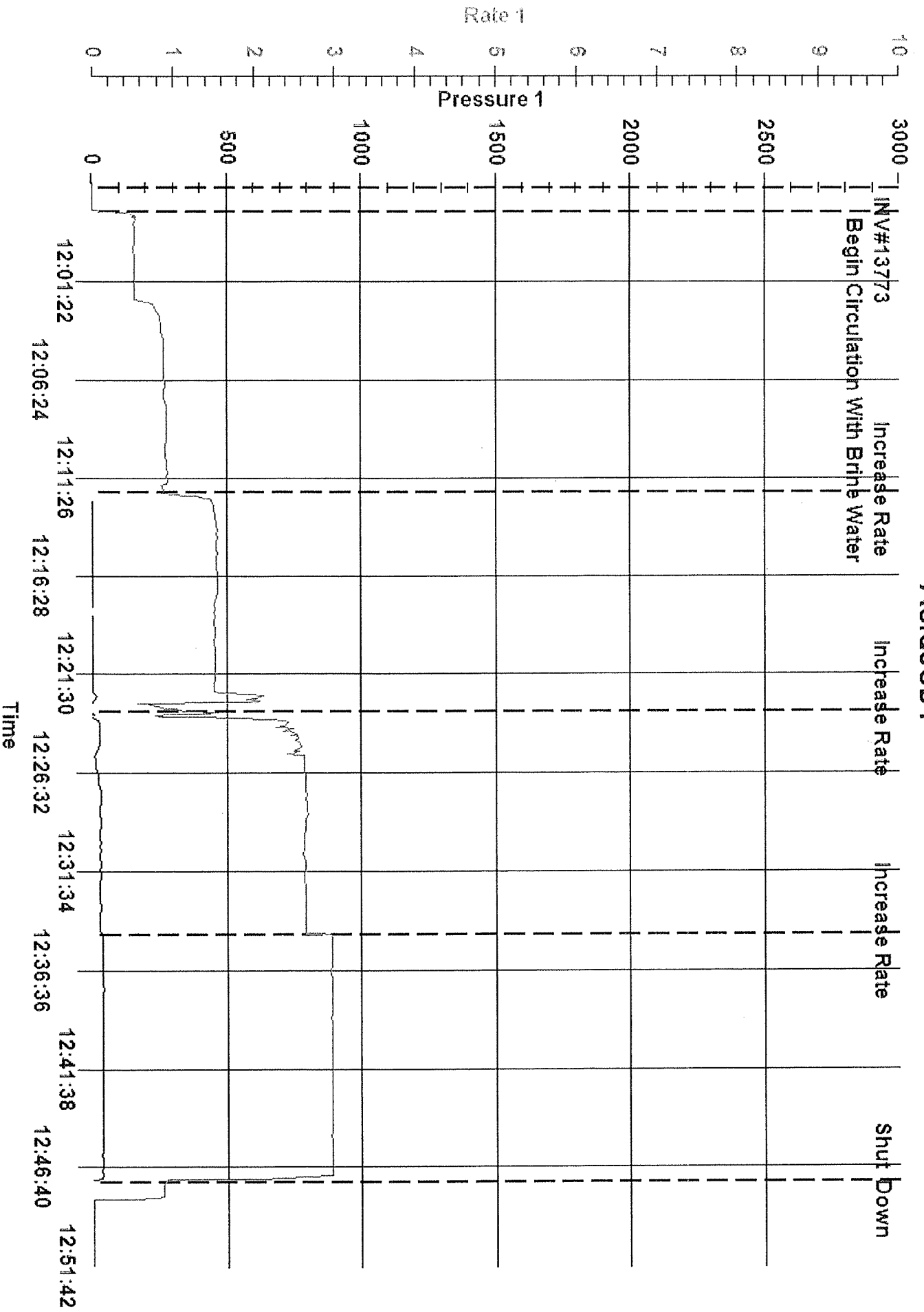
Well: W D Morris #3

Field: Sharon

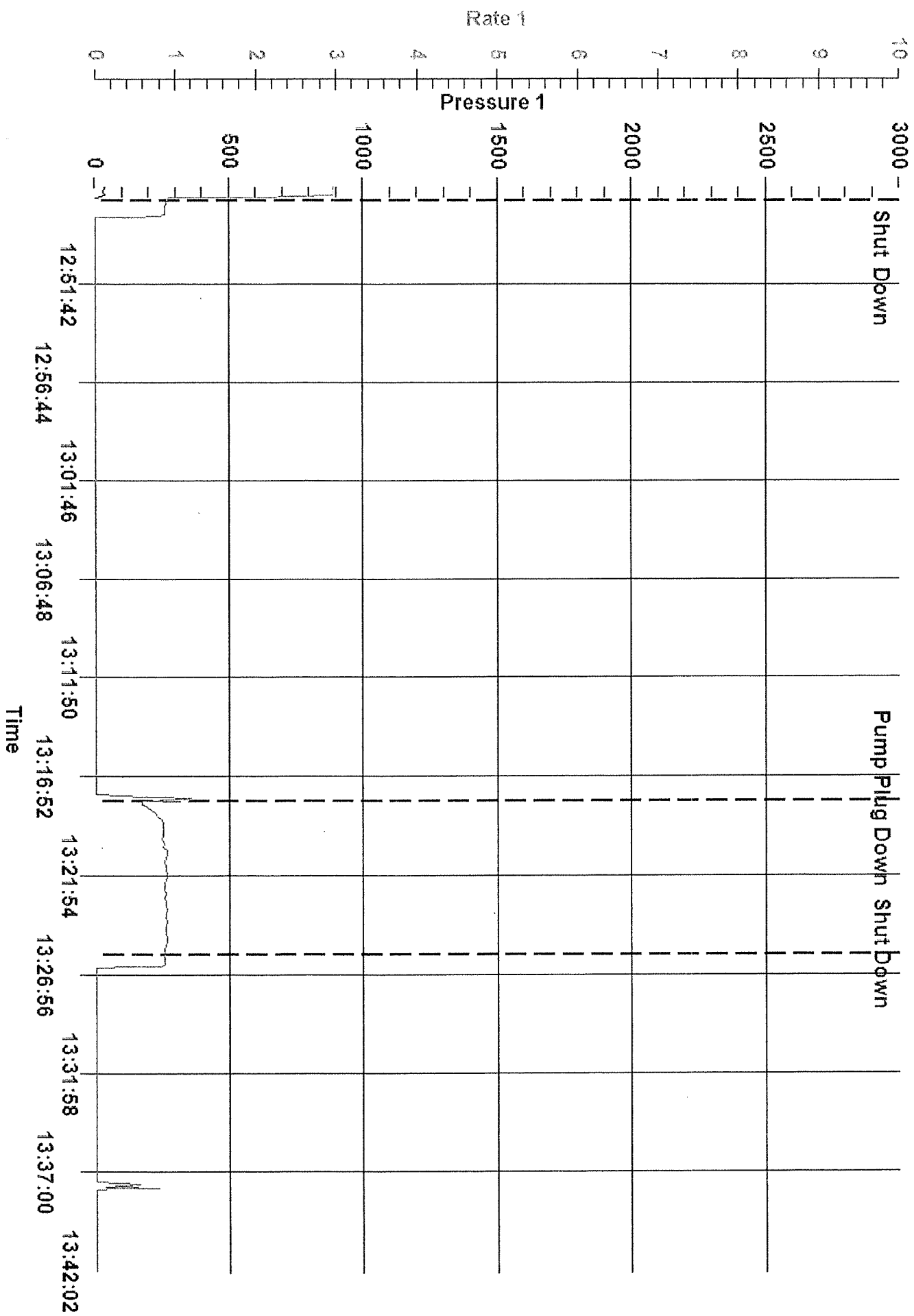
Noble, OH



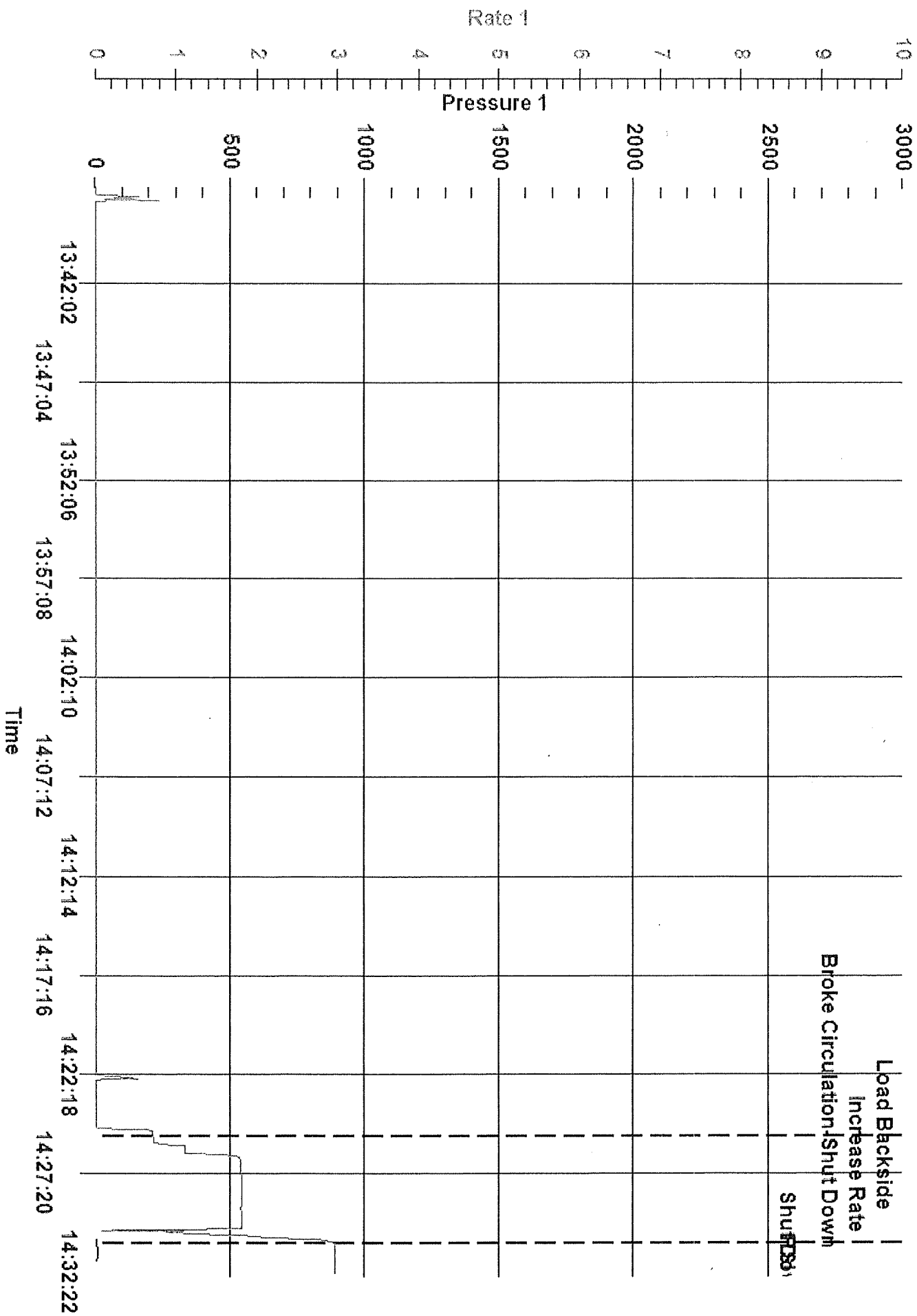
AcidJob1



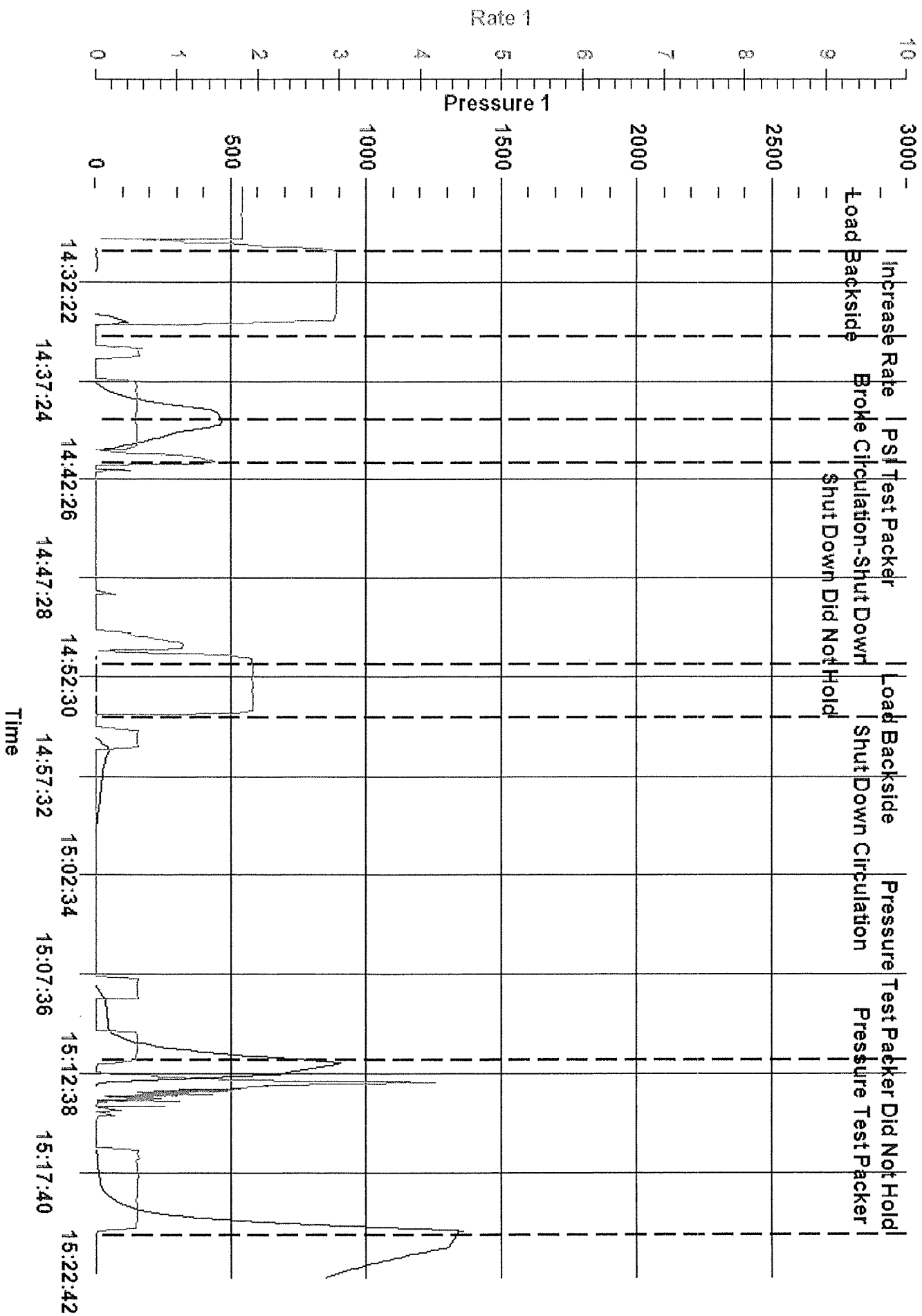
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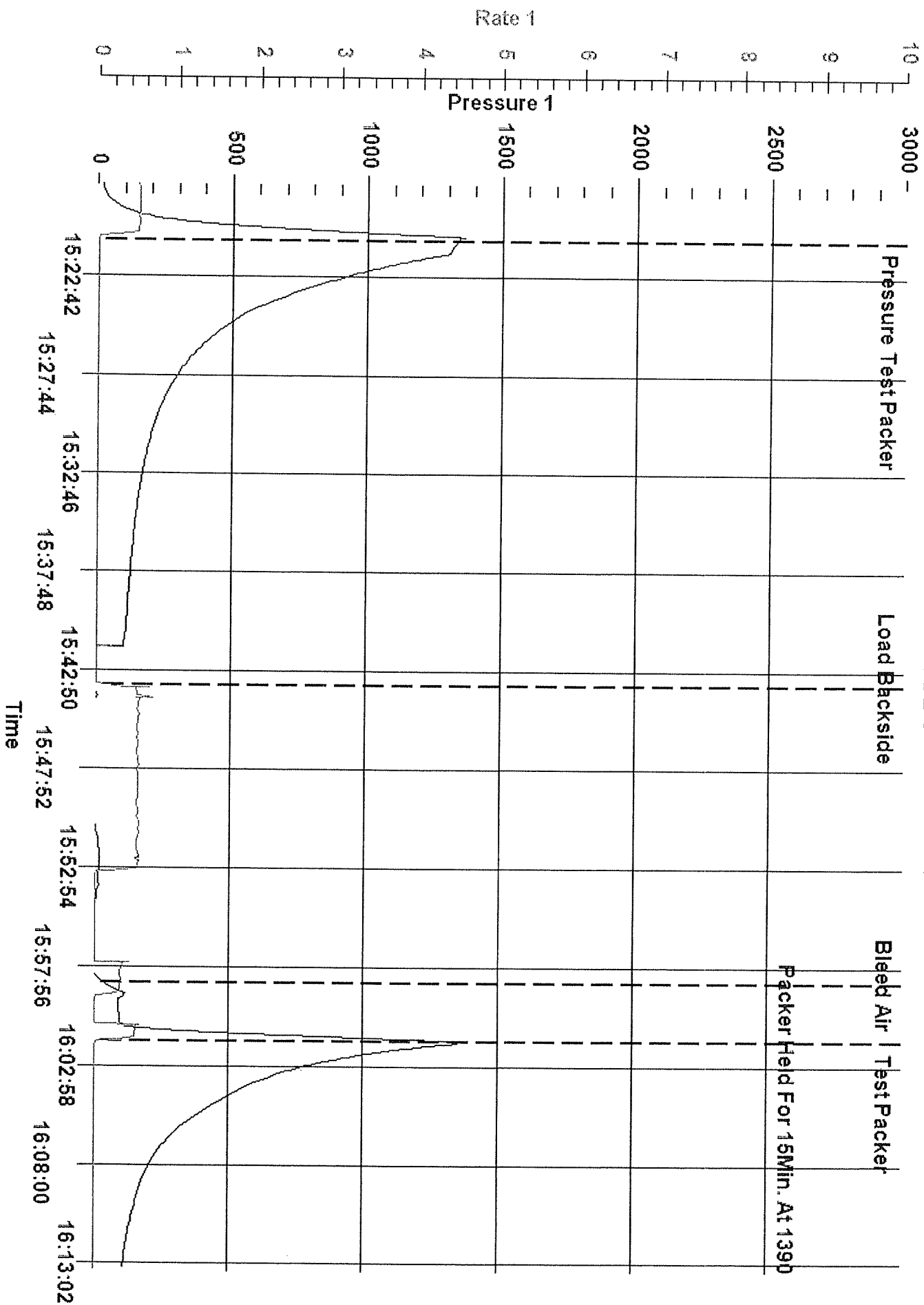
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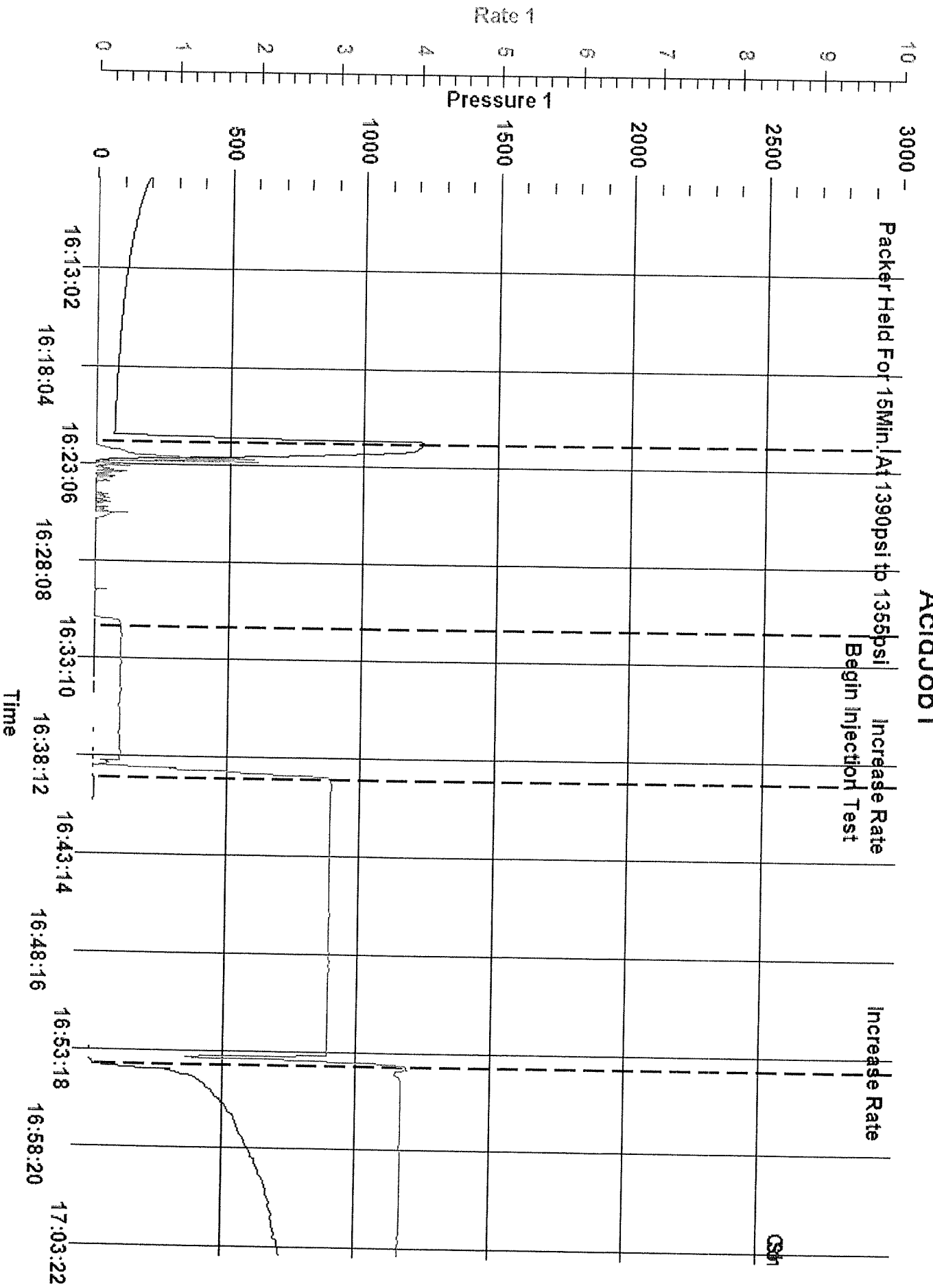
AcidJob1



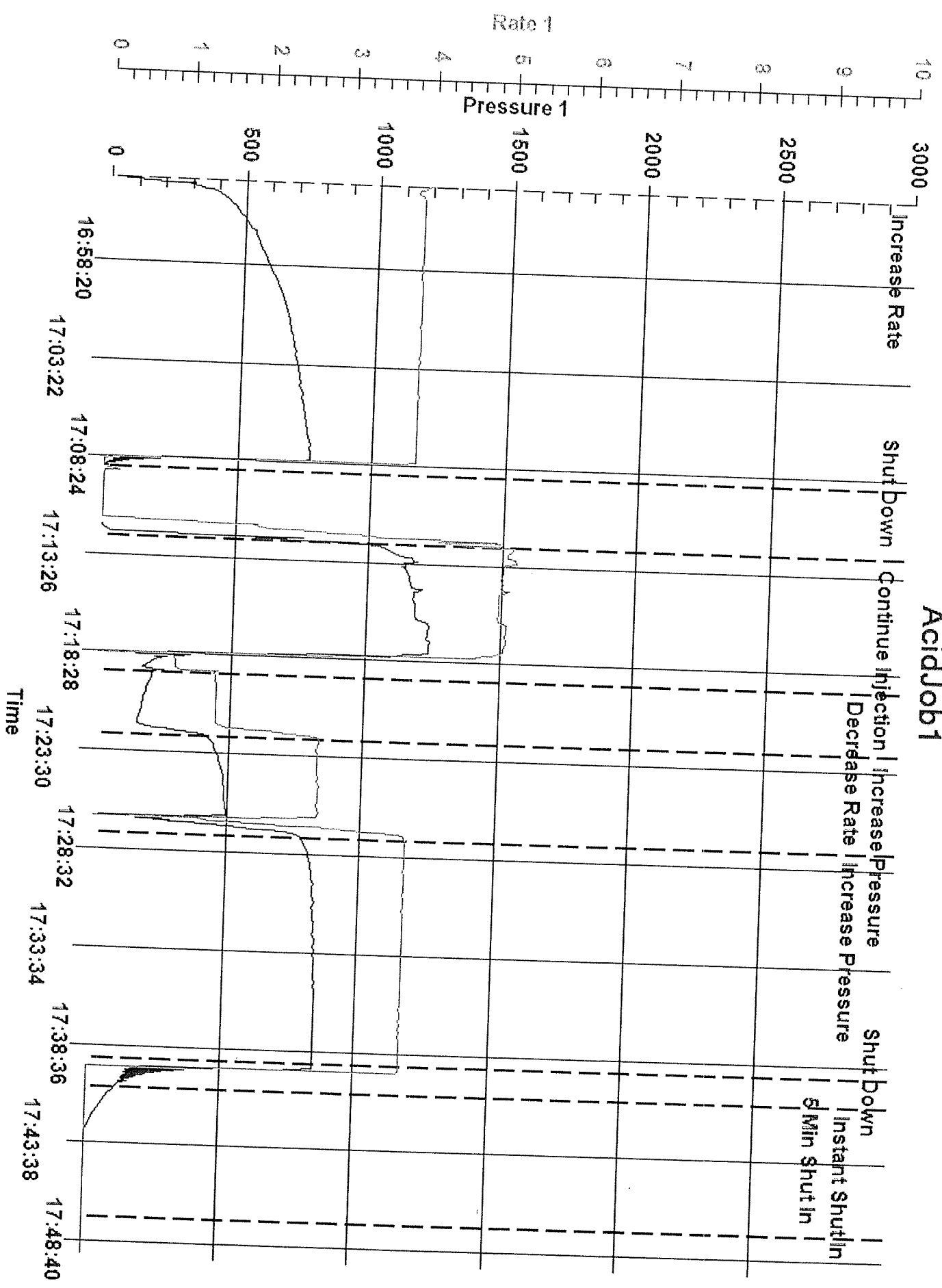
AcidJob1



AcidJob1



AcidJob1





Producers Service Corporation
109 South Graham Street
Zanesville, OH 43701
(740) 454-6253
FAX (740) 454-0778
www.producerservicecorp.com

Disposal Well

Northwood Energy

Treater: Jason Stanbery
2/1/2012
Well: W D Morris #3
Field: Sharon
Noble, OH

Casing O.D.: 4.5 Wt.: 10.5 Depth: 5834'

Tubing Size: 2 7/8 Depth: 5517'

Upper Packer: Make: Depth: 5517'

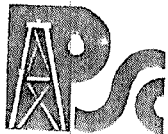
Casing Perforations	No. Shots	From	To
	174	5556'	5716'

Formation: Clinton- Medina

Load & Break	1341	Total Volume	8464.68
Ave. PSI	614	Displacement	614
Shut-In Instant	318	5-Min.	Vaccum
10-Min.	-2943.29	Max.	1378.89



Time	Comment	Serial1 Pressure 1	Serial1 Rate 1	Serial1 Rate 1 GT
11:56:39 AM	INV#13773	-4.46	0	1.68
11:57:52 AM	Begin Circulation With Brine Water	-4.05	0	1.68
12:12:13 PM	Increase Rate	-11.75	0.86	467.04
12:23:26 PM	Increase Rate	-4.86	1.22	1178.52
12:34:50 PM	Increase Rate	42.15	2.95	2410.8
12:47:27 PM	Shut Down	-22.7	0.88	3963.96
1:18:10 PM	Pump Plug Down	-12.16	0.55	4005.96
1:25:56 PM	Shut Down	-14.59	0.86	210.42
2:25:29 PM	Load Backside	-9.73	0.72	10.92
2:30:53 PM	Increase Rate	5.27	2.96	388.08
2:35:08 PM	Broke Circulation-Shut Down	-22.7	0	837.06
2:39:25 PM	PSI Test Packer	464.49	0.5	891.24
2:41:37 PM	Shut Down Did Not Hold	-21.08	1.46	949.2
2:51:55 PM	Load Backside	0.41	1.93	1029.84
2:54:36 PM	Shut Down Circulation	-6.89	0	1234.8
3:11:59 PM	Pressure Test Packer Did Not Hold	807.8	0.5	1309.14
3:20:52 PM	Pressure Test Packer	1331.87	0	1485.12
3:43:35 PM	Load Backside	-5.67	0	1485.54
3:58:45 PM	Bleed Air	34.86	0.32	1707.30
4:01:44 PM	Test Packer	1372.81	0	1731.66
4:21:58 PM	Packer Held For 15Min. At 1390psi to 1355psi	1221.22	0	1731.66
4:31:31 PM	Begin Injection Test	1.62	0.34	4.2
4:39:20 PM	Increase Rate	5.67	2.97	153.30
4:54:07 PM	Increase Rate	17.02	3.97	1993.32
5:08:56 PM	Shut Down	-4.46	0	4320.12
5:12:31 PM	Continue Injection	972.36	5.09	4439.4
5:19:27 PM	Decrease Rate	208.74	1.47	5706.12
5:22:43 PM	Increase Pressure	420.31	2.8	5931.66
5:27:45 PM	Increase Pressure	779.83	3.89	6517.14
5:39:20 PM	Shut Down	848.74	3.89	8410.50
5:40:48 PM	Instant Shut In	108.63	0	8464.68
5:47:26 PM	5 Min Shut In	-9.32	0	8464.68



PRODUCERS SERVICE CORP.

109 SOUTH GRAHAM ST.
ZANESVILLE, OHIO 43701

JOB LOG

FIELD COPY

INVOICE NO. _____

PRESSURE IN P.S.I.

BREAKDOWN _____ MAXIMUM _____

AVERAGE _____ DISPLACEMENT _____

SHUT-IN: INSTANT _____ 5-MIN _____ 10-MIN _____

VOLUMES IN GAL.

LOAD & BKDN _____ PAD _____

TREATMENT _____ DISPL _____

TOTAL VOLUME _____

HYDRAULIC HORSEPOWER

USED _____

AVERAGE RATES IN B.P.M.

TREATING _____ DISPL _____ OVERALL _____

DESCRIPTION OF JOB _____

TIME	RATE (BPM)	VOLUME (GAL)	PRESSURE (PSI)		DESCRIPTION OF STAGE OR EVENT
			TUBING	CASING	
1:00	2.5	100	30		
1:05	2.5	100	30		
1:10	2.5	100	30		
1:15	2.5	100	30		
1:20	2.5	100	30		
1:25	2.5	100	30		
1:30	2.5	100	30		
1:35	2.5	100	30		
1:40	2.5	100	30		
1:45	2.5	100	30		
1:50	2.5	100	30		
1:55	2.5	100	30		
2:00	2.5	100	30		
2:05	2.5	100	30		
2:10	2.5	100	30		
2:15	2.5	100	30		
2:20	2.5	100	30		
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2:40	2.5	100	30		
2:45	2.5	100	30		
2:50	2.5	100	30		
2:55	2.5	100	30		
3:00	2.5	100	30		
3:05	2.5	100	30		
3:10	2.5	100	30		
3:15	2.5	100	30		
3:20	2.5	100	30		
3:25	2.5	100	30		
3:30	2.5	100	30		
3:35	2.5	100	30		
3:40	2.5	100	30		
3:45	2.5	100	30		
3:50	2.5	100	30		
3:55	2.5	100	30		
4:00	2.5	100	30		



Ohio Department of Natural Resources

FEDERAL REGISTER

STATE OF OHIO

Division of Mineral Resources Management
South Region
2050 E Wheeling Avenue
Cambridge, Ohio 43725-2159
Phone: (740) 439-9079 Fax: (740) 432-7711

FACSIMILE TRANSMITTAL FORM

FAX: (740) 432-7711

SEND TO:

Name: Dom Tomastik

Company: Oil + Gas

Fax #: 614/265-7998

FROM:

Name: Dave Ball

Date: 2/3/12 Number of pages including this cover sheet 10

MESSAGE:



Producers Service Corporation
 109 South Graham Street
 Zanesville, OH 43701
 (740) 454-6253
 FAX (740) 454-0775
 www.producerservicecorp.com

Disposal Well

Northwood Energy

Treater: Jason Stanbery
 2/1/2012
 Well: W D Morris #3
 Field: Sharon
 Noble, OH

Casing O.D.: 4.5 Wt.: 10.5 Depth: 5834'

Tubing Size: 2 7/8 Depth: 5517'

Upper Packer: Make: Depth: 5517'

Casing Perforations	No. Shots	From	To
	174	5556'	5716'

Formation: Clinton- Medina

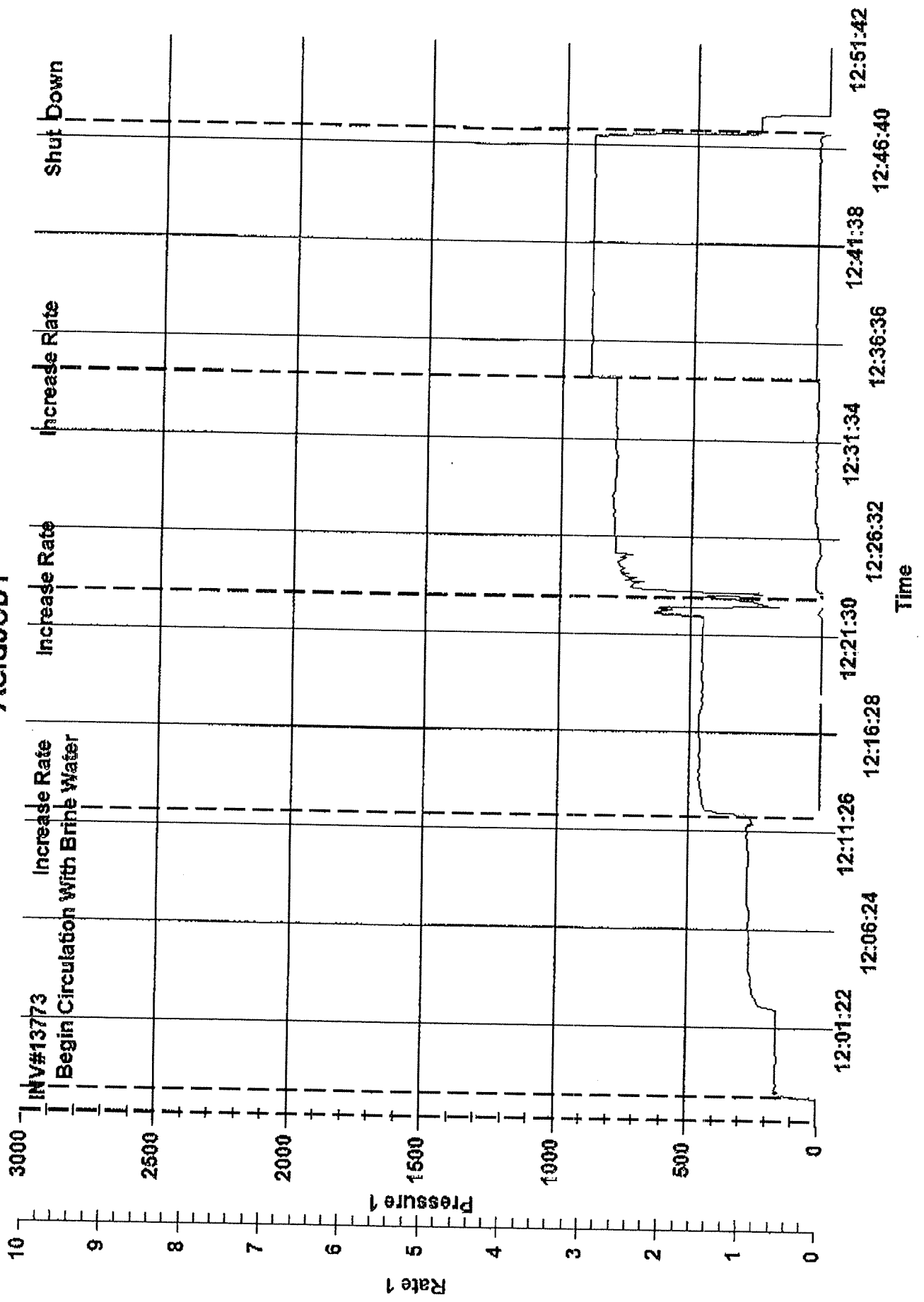
Load & Break	1341	Total Volume	8464.68
Ave. PSI	614	Displacement	614
Shut-In Instant	318	5-Min.	Vaccum
10-Min.	-2943.29	Max.	1378.89

*Packer @ 5517'
 10,000 # tension*

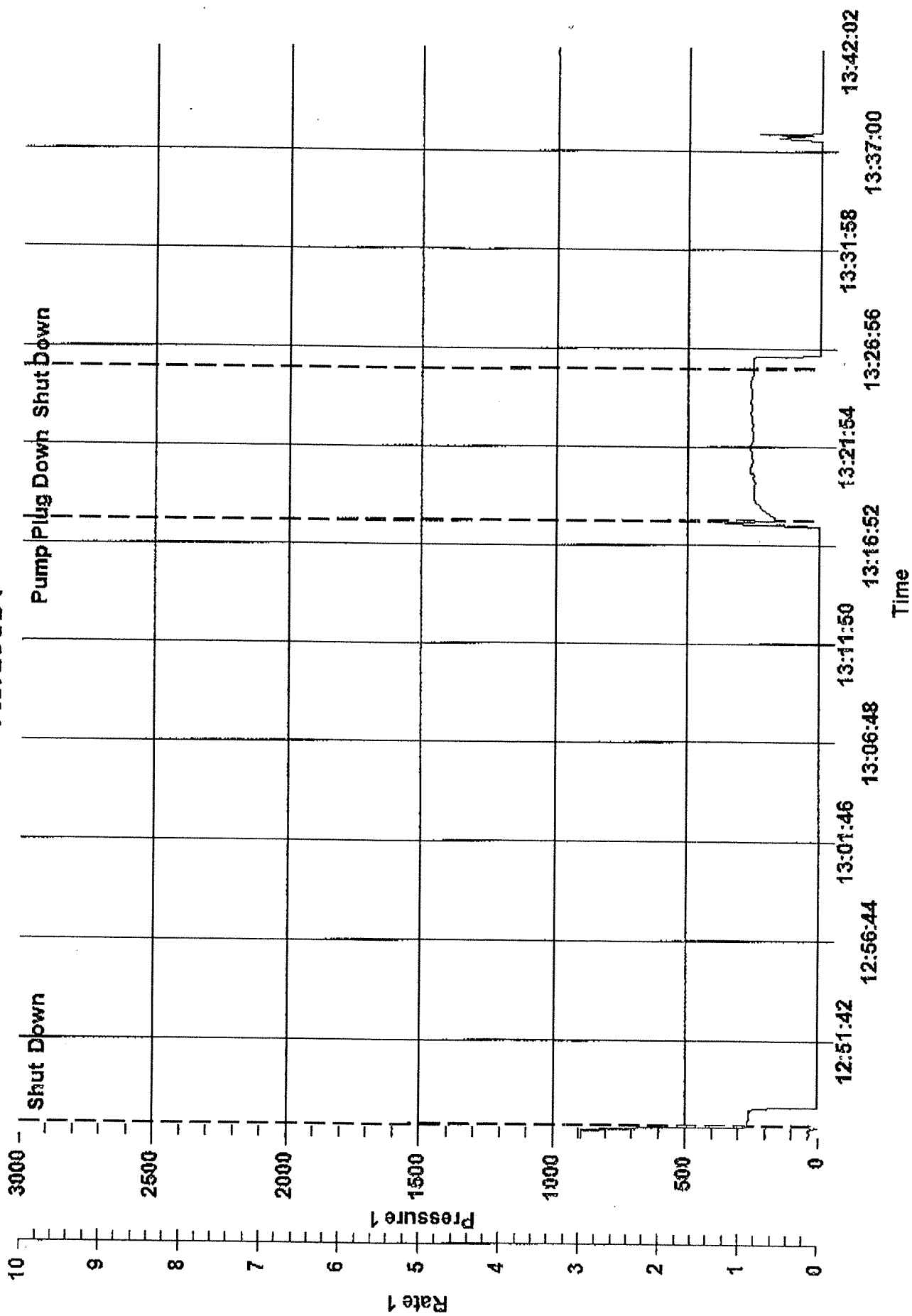
Rolligon

Time	Comment	Serial1 Pressure 1	Serial1 Rate 1	Serial1 Rate 1 GT
11:56:39 AM	INV#13773	-4.46	0	1.68
11:57:52 AM	Begin Circulation With Brine Water	-4.05	0	1.68
12:12:13 PM	Increase Rate	-11.75	0.86	467.04
12:23:26 PM	Increase Rate	-4.86	1.22	1178.52
12:34:50 PM	Increase Rate	42.15	2.95	2410.8
12:47:27 PM	Shut Down	-22.7	0.88	3963.96
1:18:10 PM	Pump Plug Down	-12.16	0.55	4005.96
1:25:56 PM	Shut Down	-14.59	0.86	210.42
2:25:29 PM	Load Backside	-9.73	0.72	10.92
2:30:53 PM	Increase Rate	5.27	2.96	388.08
2:35:08 PM	Broke Circulation-Shut Down	-22.7	0	837.06
2:39:25 PM	PSI Test Packer	464.49	0.5	891.24
2:41:37 PM	Shut Down Did Not Hold	-21.08	1.46	949.2
2:51:55 PM	Load Backside	0.41	1.93	1029.84
2:54:36 PM	Shut Down Circulation	-6.89	0	1234.8
3:11:59 PM	Pressure Test Packer Did Not Hold	807.8	0.5	1309.14
3:20:52 PM	Pressure Test Packer	1331.87	0	1485.12
3:43:35 PM	Load Backside	-5.67	0	1485.54
3:58:45 PM	Bleed Air	34.86	0.32	1707.30
4:01:44 PM	Test Packer	1372.81	0	1731.66
4:21:58 PM	Packer Held For 15Min. At 1390psi to 1355psi	1221.22	0	1731.66
4:31:31 PM	Begin Injection Test	1.62	0.34	4.2
4:39:20 PM	Increase Rate	5.67	2.97	153.30
4:54:07 PM	Increase Rate	17.02	3.97	1993.32
5:08:56 PM	Shut Down	-4.46	0	4320.12
5:12:31 PM	Continue Injection	972.36	5.09	4439.4
5:19:27 PM	Decrease Rate	208.74	1.47	5706.12
5:22:43 PM	Increase Pressure	420.31	2.8	5931.66
5:27:45 PM	Increase Pressure	779.83	3.89	6517.14
5:39:20 PM	Shut Down	848.74	3.89	8410.50
5:40:48 PM	Instant Shut In	108.63	0	8464.68
5:47:26 PM	5 Min Shut In	-9.32	0	8464.68

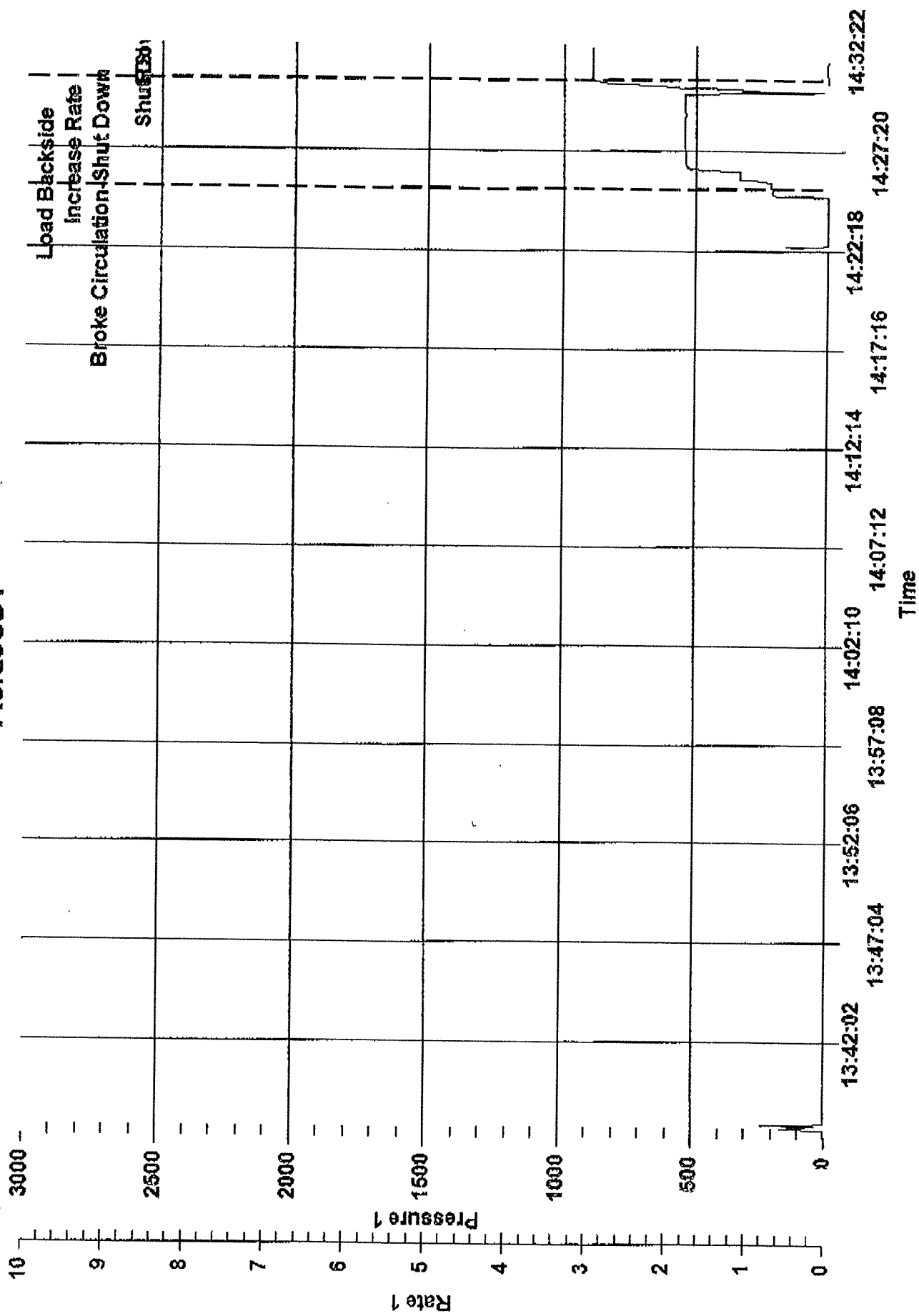
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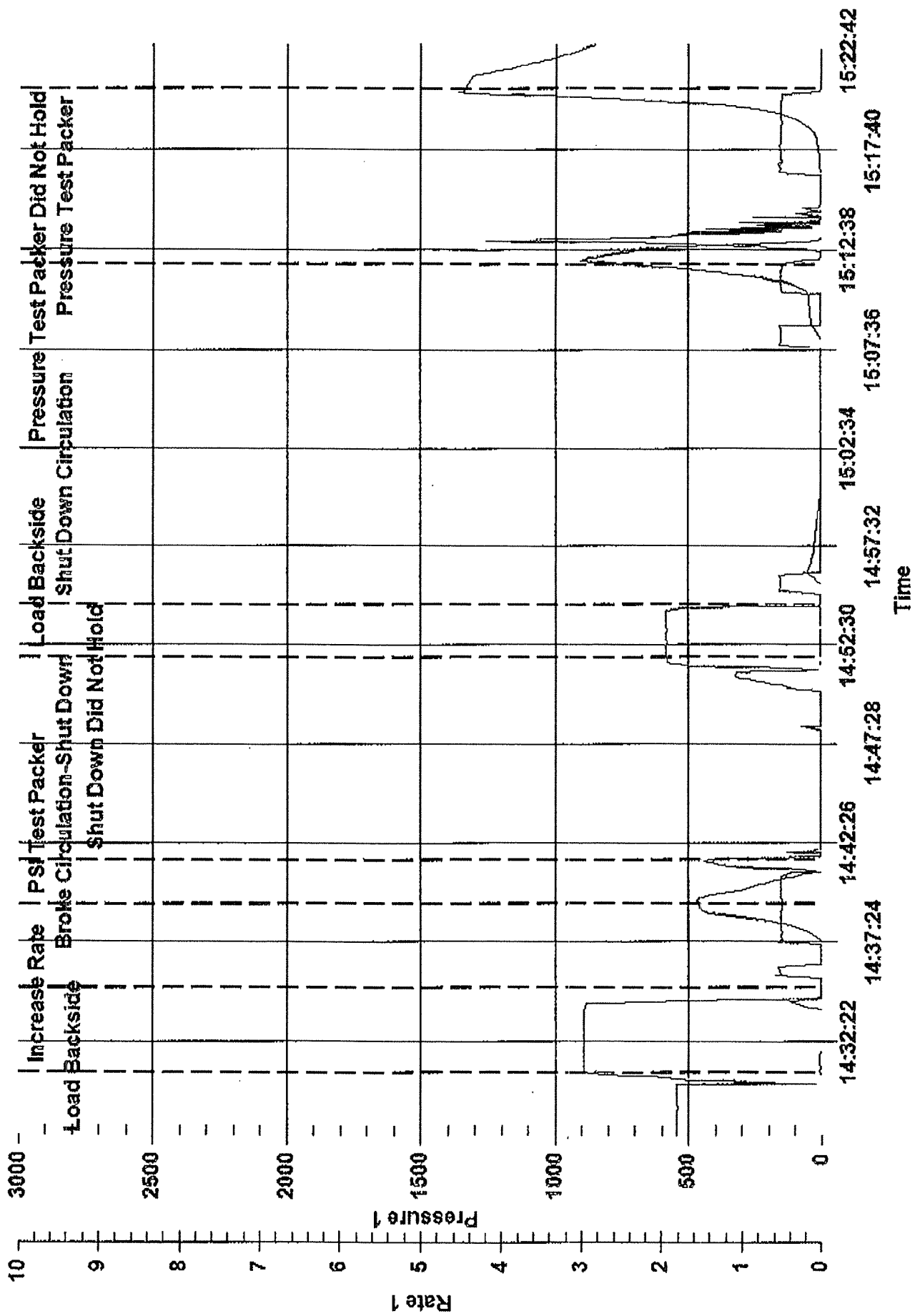
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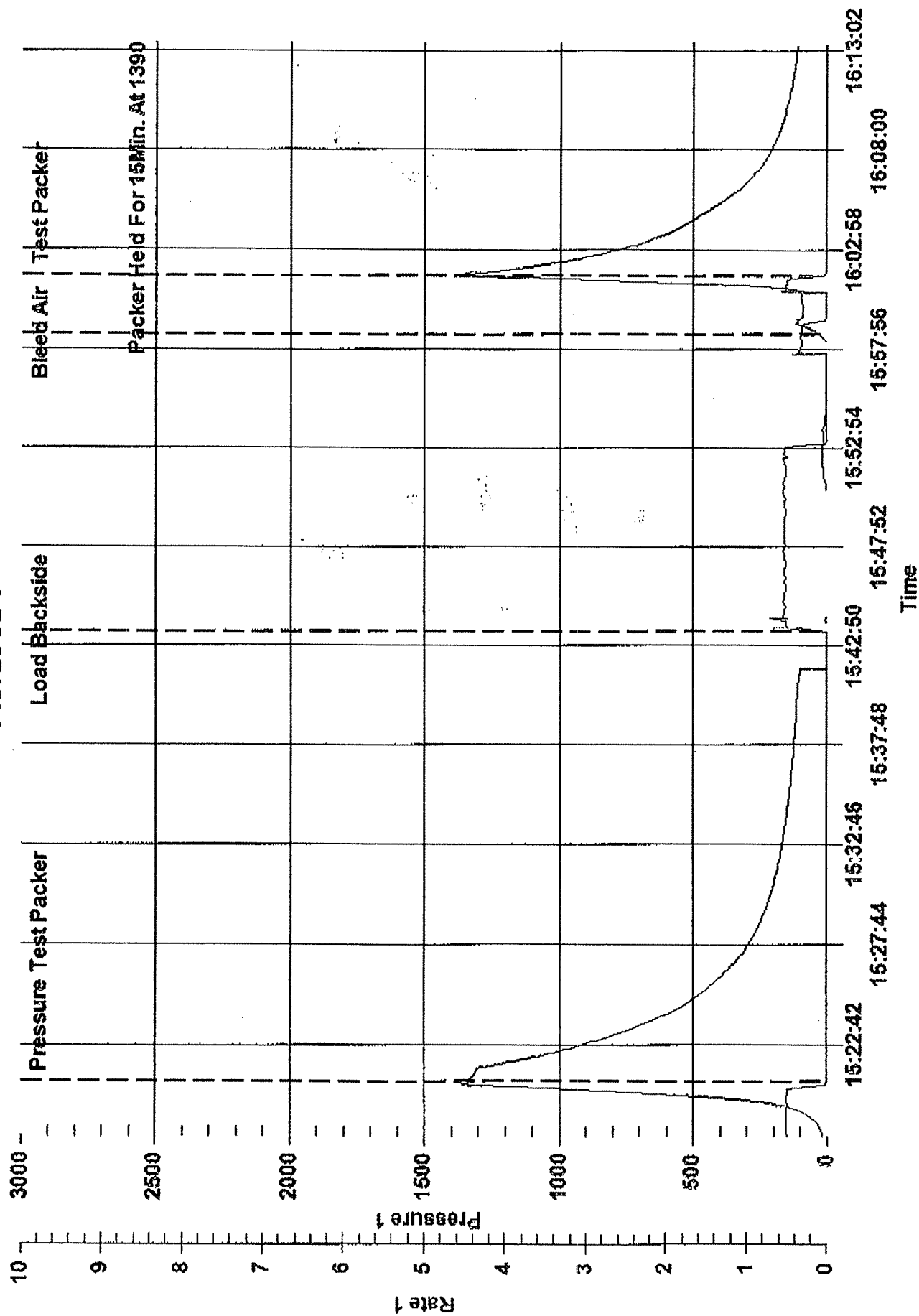
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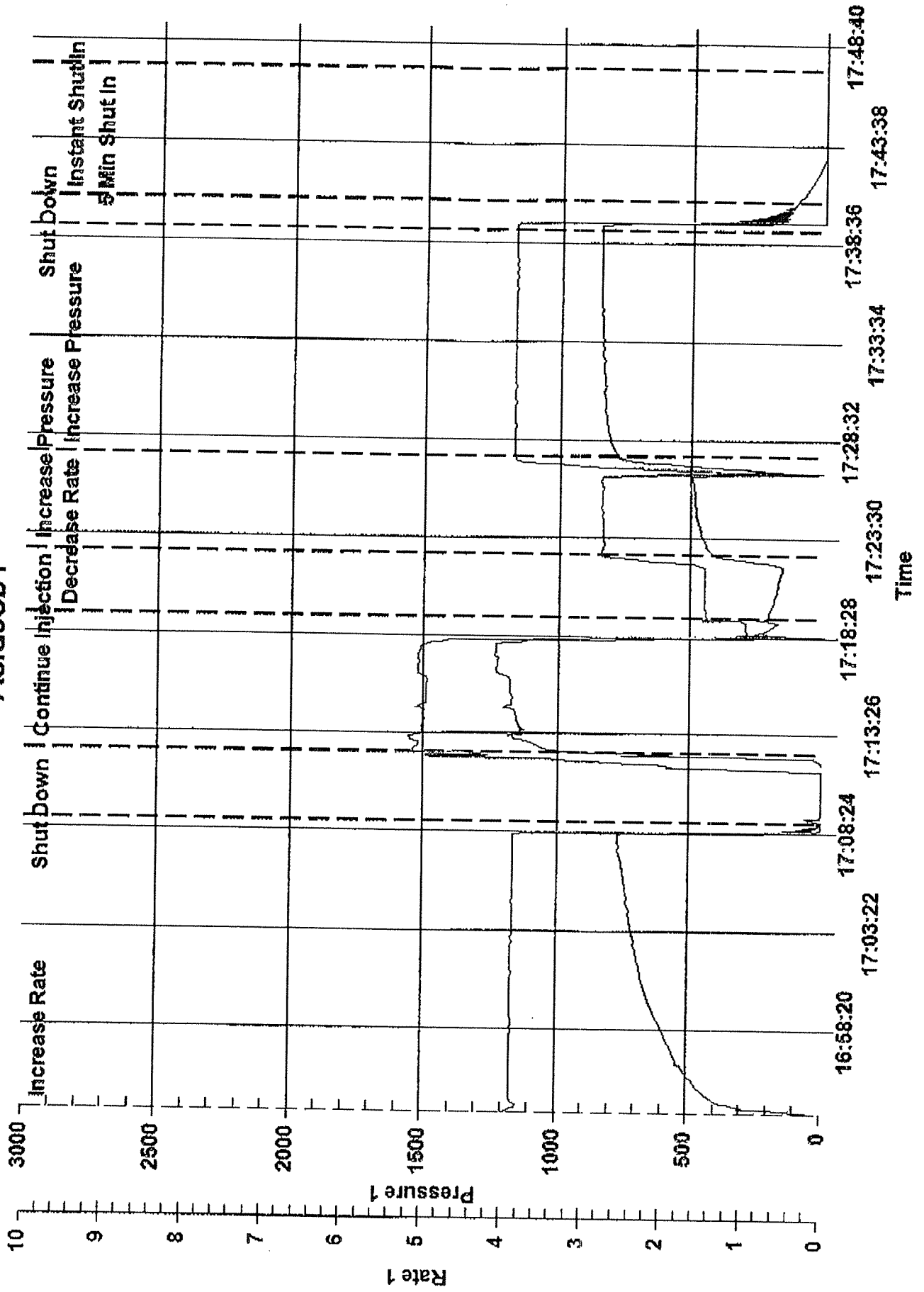
AcidJob1



AcidJob1



AcidJob1





Ohio Department of Natural Resources

JOHN R. KASICH, GOVERNOR

JAMES ZEHRINGER, DIRECTOR

January 11, 2012

Mr. Bill Arnholt
Northwood Energy Corporation
941 Chatham Lane, Suite 100
Columbus, Ohio 4221-2416

RE: Donald W. Morris No. 3 well, Permit # 4250, Sharon Township, Noble County, Ohio

Dear Mr. Arnholt:

Pursuant to Section 1501: 9-3-06 of the Ohio Administrative Code, your request to run an injectivity test on the proposed **Clinton/Medina injection zone** in the above-captioned well, the Division hereby grants authorization to conduct the injectivity test. This test is subject to the following stipulations.

1. Dave Ball, Mineral Resources Inspector, shall be notified at (740) 264-7213 at least 48 hours in advance of this test, so that a representative of the Division can be present to witness the test.
2. **Test pressure used to inject fluids is not to exceed 1280 psi** (based on the top of the perforation at 5556 feet).
3. The duration of the test is limited to 48 hours.
4. A full report, which includes injection volumes, pressures, and duration, must be submitted to the Tom Tomastik within 15 days after completion of this test.
5. **The authorization to conduct this test on the above-captioned well expires after February 15, 2012.**

If you have any questions, please feel free to contact me at (614) 265-1032.

Sincerely,

A handwritten signature in cursive script, appearing to read "Tom Tomastik".

Tom Tomastik, Geologist
Division of Oil and Gas Resources Management
2045 Morse Road, H-3
Columbus, Ohio 43229-6693

Cc: Dave Ball, Mineral Resources Inspector



October 13, 2011

Mr. Bill Arnholt
Northwood Energy Corporation
941 Chatham Lane, Suite 100
Columbus, Ohio 43221-2416

RE: Donald W. Morris No. 3 well, Permit # 4250, Sharon Township, Noble County, Ohio

Dear Mr. Arnholt:

Pursuant to Section 1501: 9-3-06 of the Ohio Administrative Code, your request to run an injectivity test on the proposed **Clinton/Medina injection zone** in the above-captioned well, the Division hereby grants authorization to conduct the injectivity test. This test is subject to the following stipulations.

1. Dave Ball, Mineral Resources Inspector, shall be notified at (740) 264-7213 at least 48 hours in advance of this test, so that a representative of the Division can be present to witness the test.
2. **Test pressure used to inject fluids is not to exceed 1280 psi** (based on the top of the perforation at 5556 feet).
3. The duration of the test is limited to 48 hours.
4. A full report, which includes injection volumes, pressures, and duration, must be submitted to the Tom Tomastik within 15 days after completion of this test.
5. **The authorization to conduct this test on the above-captioned well expires after December 31, 2011.**

If you have any questions, please feel free to contact me at (614) 265-1032.

Sincerely,

A handwritten signature in black ink that reads "Tom Tomastik".

Tom Tomastik, Geologist
Division of Oil and Gas Resources Management
2045 Morse Road, H-3
Columbus, Ohio 43229-6693

Cc: Dave Ball, Mineral Resources Inspector



Ohio Department of Natural Resources

JOHN R. KASICH, GOVERNOR

DAVID MUSTINE, DIRECTOR

July 27, 2011

Mr. Bill Arnholt
Northwood Energy Corporation
941 Chatham Lane, Suite 100
Columbus, Ohio 43221-2416

RE: Donald W. Morris No. 3 well, Permit # 4250, Sharon Township, Noble County, Ohio

Dear Mr. Arnholt:

Pursuant to Section 1501: 9-3-06 of the Ohio Administrative Code, your request to run an injectivity test on the proposed **Clinton/Medina injection zone** in the above-captioned well, the Division hereby grants authorization to conduct the injectivity test. This test is subject to the following stipulations.

1. Dave Ball, Mineral Resources Inspector, shall be notified at (614) 264-7213 at least 48 hours in advance of this test, so that a representative of the Division can be present to witness the test.
2. **Test pressure used to inject fluids is not to exceed 1280 psi** (based on the top of the open hole at 5556 feet).
3. The duration of the test is limited to 48 hours.
4. A full report, which includes injection volumes, pressures, and duration, must be submitted to the Tom Tomastik within 15 days after completion of this test.
5. **The authorization to conduct this test on the above-captioned well expires after October 1, 2011.**

If you have any questions, please feel free to contact me at (614) 265-1032.

Sincerely,

A handwritten signature in cursive script, reading "Tom Tomastik", with a horizontal line extending to the right.

Tom Tomastik, Geologist
Division of Mineral Resources Management
2045 Morse Road, H-3
Columbus, Ohio 43229-6693

Cc: Dave Ball, Mineral Resources Inspector