



KANSAS CORPORATION COMMISSION 1066348
OIL & GAS CONSERVATION DIVISION

Form ACO-1

June 2009

Form Must Be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- Deepening Re-perf. Conv. to ENHR Conv. to SWD
- Conv. to GSW
- Plug Back: _____ Plug Back Total Depth _____
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date Date Reached TD Completion Date or Recompletion Date

API No. 15 - _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite: _____

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

- Letter of Confidentiality Received
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____



1066348

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

| | |
|---|---|
| Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run: | <input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum |
|---|---|

| CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used | | | | | | | |
|---|-------------------|---------------------------|-------------------|---------------|----------------|--------------|----------------------------|
| Report all strings set-conductor, surface, intermediate, production, etc. | | | | | | | |
| Purpose of String | Size Hole Drilled | Size Casing Set (In O.D.) | Weight Lbs. / Ft. | Setting Depth | Type of Cement | # Sacks Used | Type and Percent Additives |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

| ADDITIONAL CEMENTING / SQUEEZE RECORD | | | | |
|--|------------------|----------------|--------------|----------------------------|
| Purpose: | Depth Top Bottom | Type of Cement | # Sacks Used | Type and Percent Additives |
| _____ Perforate _____ Protect Casing _____ Plug Back TD _____ Plug Off Zone | | | | |
| | | | | |

| Shots Per Foot | PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated | Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i> | Depth |
|----------------|---|--|-------|
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR. _____ Producing Method: Flowing Pumping Gas Lift Other *(Explain)* _____

| | | | | | |
|-----------------------------------|-----------|---------|-------------|---------------|---------|
| Estimated Production Per 24 Hours | Oil Bbls. | Gas Mcf | Water Bbls. | Gas-Oil Ratio | Gravity |
|-----------------------------------|-----------|---------|-------------|---------------|---------|

| | | |
|--|---|---|
| DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i> | METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____ | PRODUCTION INTERVAL: _____ _____ |
|--|---|---|

| | |
|-----------|---------------------------|
| Form | ACO1 - Well Completion |
| Operator | Downing-Nelson Oil Co Inc |
| Well Name | Nickelson-Lloyd Unit 1-23 |
| Doc ID | 1066348 |

All Electric Logs Run

| |
|-------------------------------|
| |
| Sonic |
| Micro |
| Dual Induction |
| Compensated Neutron / Density |

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 5215

| | | | | | | | | | | | | | | | | |
|---------------------|--------------------------------------|------|------------|--|--|-------|-------------------------------|--|--------|-------|-------------------------|-------------|--|--------|-----------|--|
| Date | 10/4/11 | Sec. | 23 | Twp. | 9 | Range | 24 | County | Graham | State | KS | On Location | | Finish | 6:00 P.M. | |
| Lease | Nickelson - Lloyd Well No. Unit 1-23 | | | Location Wakarusa, N to Red Line Rd, 6 W, 1 N, E & N | | | | | | | | | | | | |
| Contractor | Discovery Drilling Rig #1 | | | | | | | Owner | | | | | | | | |
| Type Job | Surface | | | | | | | To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed. | | | | | | | | |
| Hole Size | 12 1/4" | | T.D. | | 221' | | Charge To | | | | | | | | | |
| Csg. | 8 5/8" | | Depth | | 221' | | Downing + Nelson Oil Co, Inc. | | | | | | | | | |
| Tbg. Size | | | Depth | | | | Street | | | | | | | | | |
| Tool | | | Depth | | | | City | | | | State | | | | | |
| Cement Left in Csg. | 15' | | Shoe Joint | | The above was done to satisfaction and supervision of owner agent or contractor. | | | | | | | | | | | |
| Meas Line | | | Displace | | 13 Bbls | | Cement Amount Ordered | | | | 150 5x Com 2% CC 2% gel | | | | | |

EQUIPMENT

| | | | | | | |
|---------|----|-----|----------|------|----------|-----|
| Pumptrk | 9 | No. | Cementer | Pam | Common | 150 |
| | | | Helper | | | |
| Bulktrk | 14 | No. | Driver | Matt | Poz. Mix | |
| | | | Driver | | | |
| Bulktrk | PU | No. | Driver | Doug | Gel. | 3 |
| | | | Driver | | | |

JOB SERVICES & REMARKS

| | |
|--------------------|-------------------------|
| Remarks: | Hulls |
| Rat Hole | Salt |
| Mouse Hole | Flowseal |
| Centralizers | Kol-Seal |
| Baskets | Mud CLR 48 |
| D/V or Port Collar | CFL-117 or CD110 CAF 38 |
| Est Circ. | Sand |
| Mix 150sx | Handling 158 |
| Displace | Mileage |
| Cement Circulated | |

FLOAT EQUIPMENT

| | |
|-------------|--|
| Guide Shoe | |
| Centralizer | |
| Baskets | |
| AFU Inserts | |
| Float Shoe | |
| Latch Down | |

Thank You!!

| | | | |
|----------------|---------|--------------|--|
| Pumptrk Charge | Surface | Tax | |
| Mileage | 48 | Discount | |
| Signature | | Total Charge | |

[Handwritten Signature]

JOB LOG

SWIFT Services, Inc.

DATE 10-9-11 PAGE NO. 1

CUSTOMER *Domingo & Nelson* WELL NO. *#1-23* LEASE *Nicholson Lloyd* JOB TYPE *2-stage* TICKET NO. *20190*

| CHART NO. | TIME | RATE (BPM) | VOLUME (BBL) (GAL) | PUMPS | | PRESSURE (PSI) | | DESCRIPTION OF OPERATION AND MATERIALS |
|-----------|------|------------|--------------------|-------|---|----------------|------------|--|
| | | | | T | C | TUBING | CASING | |
| | 1900 | | | | | | | o/a loc w/ FE |
| | | | | | | | | RTD 4100' |
| | | | | | | | | 5 1/2" x 1 1/2" x 4101' x 21' |
| | | | | | | | | rest 1, 3, 5, 8, 10, 12, 14, 48 |
| | | | | | | | | Back 49 |
| | | | | | | | | DV Tool 49 @ 2101' |
| | | | | | | | | jts out #6, 90 |
| | 1905 | | | | | | | start FE |
| | 2040 | | | | | | | Break Circ- |
| | 2125 | 4.5 | 0 | | | | 200 | start Preflushes ^{500 gal Mud Flush} 20 gal KCL Flush |
| | 2135 | 5.5 | 32/0 | | | | 250 | start EA < 2 Cement 150 sks |
| | 2142 | | 36 | | | | | End Cement |
| | | | | | | | | Wash PHL |
| | | | | | | | | Drop D Plug |
| | 2146 | 6.5 | 0 | | | | 200 | start Displacement 50 bbl wtr |
| | 2157 | 5 | 71 | | | | 250 | Catch Cement 48 bbl mud |
| | 2203 | | 99.5 | | | | 650 / 1400 | Load Plug |
| | | | | | | | | Release pressure / Float Hold |
| | 2205 | | | | | | | Drop Opening Plug 50 sks SMD |
| | 2210 | 2.5 | 71.5 | | | | 1100 | Plug RHT + MHT 30/20 Open DV |
| | 2220 | 4.5 | 0 | | | | 200 | start KCL Flush |
| | 2225 | 5.5 | 20/0 | | | | 300 | start SMD Cement |
| | 2241 | | 105 | | | | | End Cement |
| | | | | | | | | Drop Closing Plug |
| | 2243 | 5.5 | 0 | | | | 150 | start Displacement |
| | 2247 | 4 | 24 | | | | 250 | Circ Cement |
| | 2255 | | 51 | | | | 450 / 1500 | Load Plug |
| | | | | | | | | Close DV |
| | | | | | | | | Release pressure / DV Closed |
| | | | | | | | | circ 50 sks to pit |
| | | | | | | | | Nick, Josh, & David |
| | | | | | | | | off well |
| | | | | | | | | Thank you |
| | | | | | | | | Nick, Josh F., Bradon, & David |



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co., Inc.

23/9S/24W-Graham

P.O. Box 1019
Hays, KS 67601

Nickelson-Lloyd Unit

ATTN: Al Dow ning

Job Ticket: 45258

DST#: 1

Test Start: 2011.10.08 @ 12:58:15

GENERAL INFORMATION:

Formation: **LKC "I"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:50:25

Time Test Ended: 19:36:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Rash

Unit No: 38

Interval: ft (KB) To ft (KB) (TVD)

Reference Elevations: 2487.00 ft (KB)

Total Depth: 3995.00 ft (KB) (TVD)

2479.00 ft (CF)

Hole Diameter: 7.85 inches Hole Condition: Poor

KB to GR/CF: 8.00 ft

Serial #: 8354

Inside

Press @ Run Depth: 65.14 psig @ 3969.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.10.08 End Date: 2011.10.08

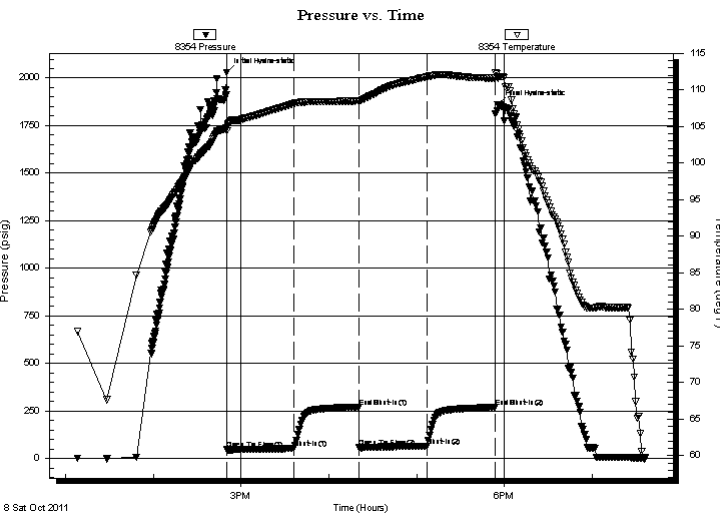
Last Calib.: 2011.10.08

Start Time: 13:08:15 End Time: 19:36:15

Time On Btm: 2011.10.08 @ 14:50:05

Time Off Btm: 2011.10.08 @ 17:55:15

TEST COMMENT: IF-Fair building blow . BOB in 20 minutes 30 seconds.
 IS-Very weak surface return @ 4 minutes. Died @ 9 minutes.
 FF-Fair building blow . BOB in 21 minutes.
 FS-Very weak surface return @ 6 minutes. Died @ 12 minutes.



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 2029.77 | 104.82 | Initial Hydro-static |
| 1 | 48.29 | 104.47 | Open To Flow (1) |
| 46 | 51.99 | 108.13 | Shut-In(1) |
| 91 | 269.67 | 108.50 | End Shut-In(1) |
| 91 | 55.60 | 108.44 | Open To Flow (2) |
| 137 | 65.14 | 111.78 | Shut-In(2) |
| 184 | 268.41 | 111.62 | End Shut-In(2) |
| 186 | 1861.97 | 111.65 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|----------------------|--------------|
| 125.00 | 10%Gas/50%Oil/40%Mud | 1.48 |
| 0.00 | 540' G.I.P. | 0.00 |
| | | |
| | | |

Gas Rates

| Choke (inches) | Pressure (psig) | Gas Rate (Mcf/d) |
|----------------|-----------------|------------------|
| | | |



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning-Nelson Oil Co., Inc.

23/9S/24W-Graham

P.O. Box 1019
Hays, KS 67601

Nickelson-Lloyd Unit

Job Ticket: 45258

DST#: 1

ATTN: Al Dow ning

Test Start: 2011.10.08 @ 12:58:15

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 85.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbbl |
|--------------|----------------------|----------------|
| 125.00 | 10%Gas/50%Oil/40%Mud | 1.480 |
| 0.00 | 540' G.I.P. | 0.000 |

Total Length: 125.00 ft

Total Volume: 1.480 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

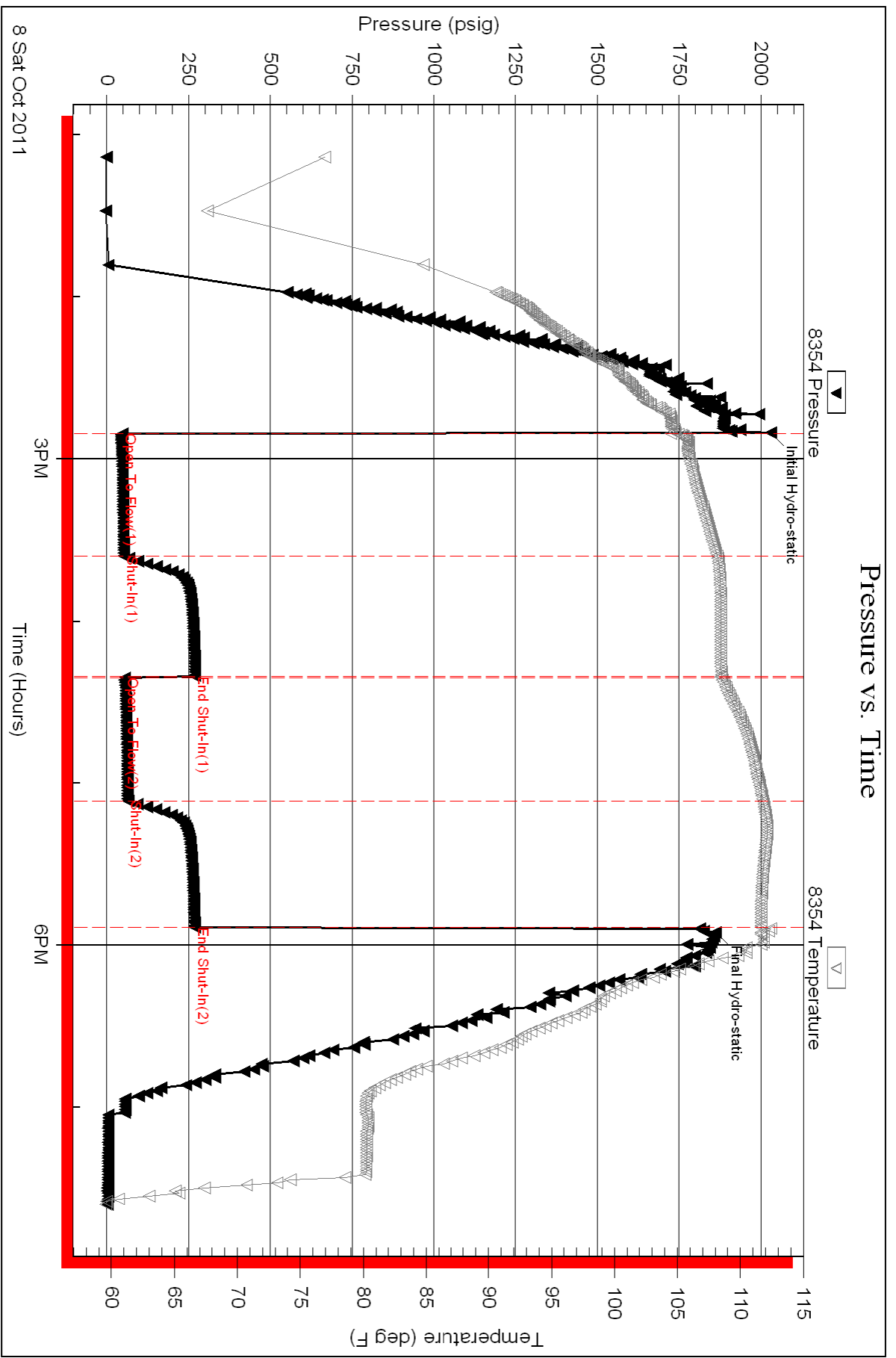
Serial #: 8354

Inside

Doming-Nelson Oil Co., Inc.

Nickelson-Lloyd Unit

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 45258

Printed: 2011.10.08 @ 23:17:37

DRILL STEM TESTS

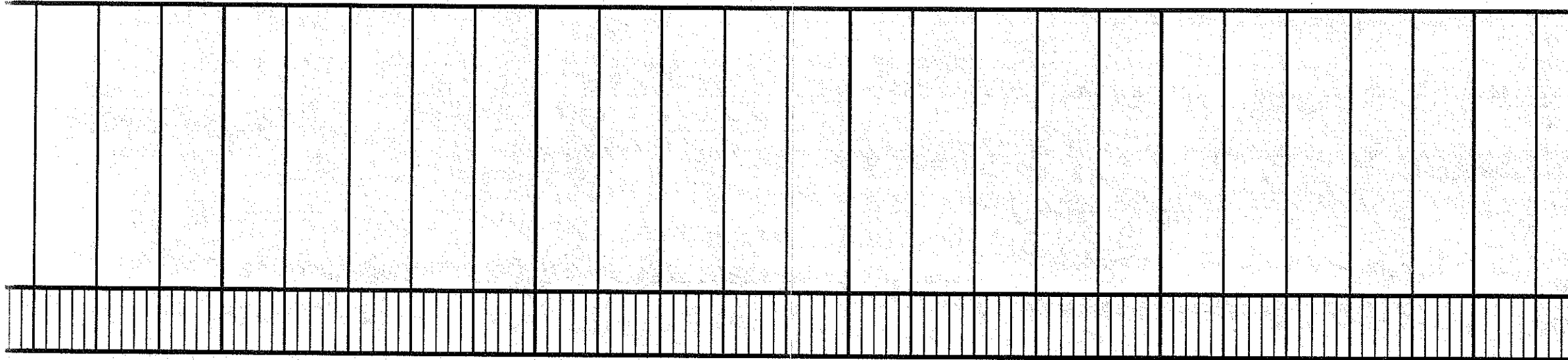
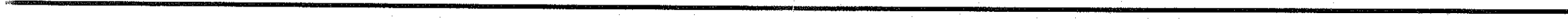
| No. | Interval | IFP/Time | ISIP/Time | FFP/Time | FSIP/Time | IH-FNH | RECOVERY |
|-----|----------|----------|-----------|----------|-----------|--------|----------|
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REMARKS AND RECOMMENDATIONS

LEGEND

- Dolomite
- Chert
- Ool. Lime
- Limestone
- Carb sh
- Shale
- Sandstone
- Salt
- Anhydrite

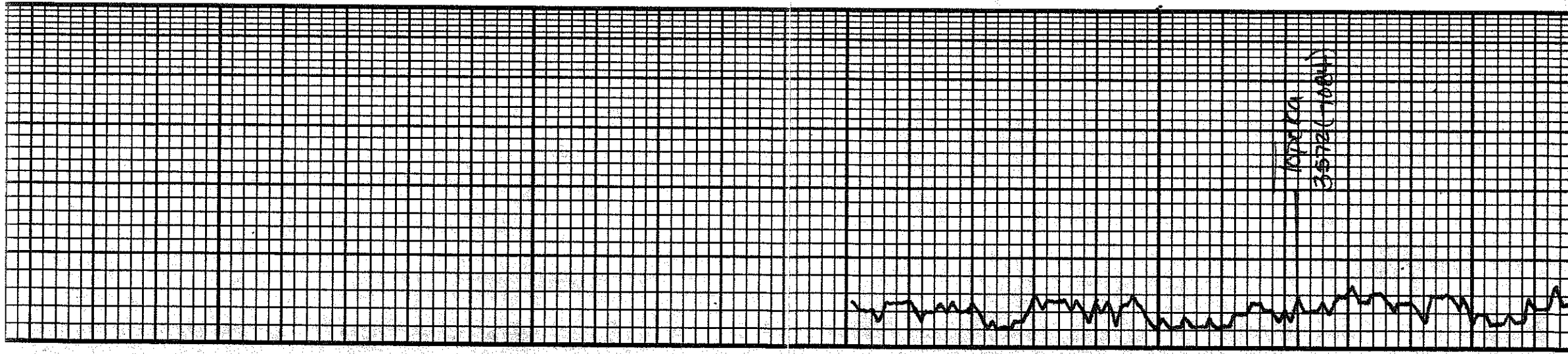
| | | | | | | | |
|--|---|--|--|--|--|--|--|
| REMARKS | | | | | | | |
| OIL SHOWS | | | | | | | |
| SAMPLE DESCRIPTIONS | <table border="1" style="width: 100%; height: 100%; border-collapse: collapse;"> <tr><td style="width: 20%;"> </td><td style="width: 20%;"> </td><td style="width: 20%;"> </td><td style="width: 20%;"> </td><td style="width: 20%;"> </td><td style="width: 20%;"> </td></tr> </table> | | | | | | |
| | | | | | | | |
| LITHOLOGY | | | | | | | |
| DEPTH | | | | | | | |
| DRILLING TIME IN MINUTES PER FOOT <small>Rate of Penetration Decreases</small> | | | | | | | |



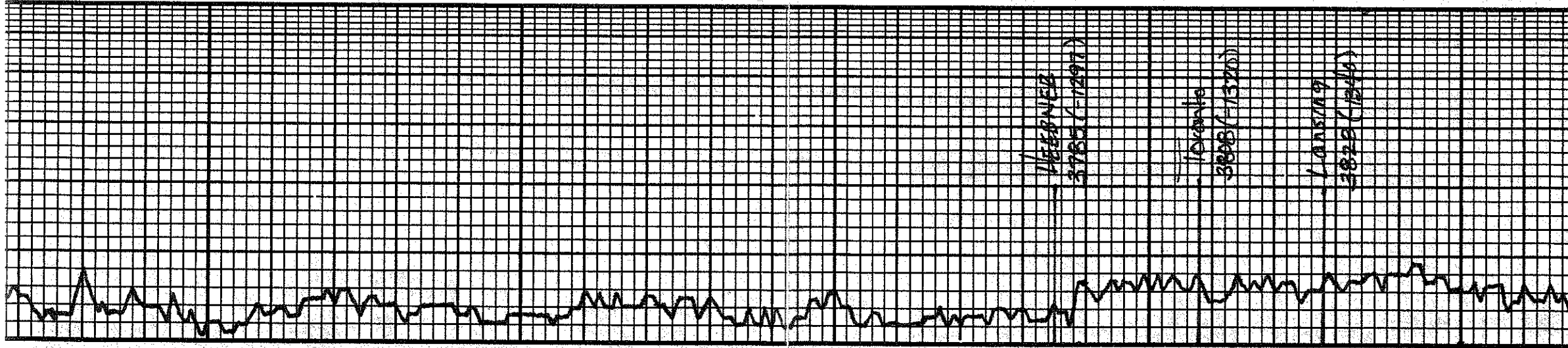
3500

50

3600



107219
3572(-1001)



50

3700

60

3800

50

SN: Black - PAUH
 LS: WNT P. VFM VdSE

SN: GM - PAUH

LS: WNT Gen. Foss in good
 in front of foss & weathered con
 about - No show

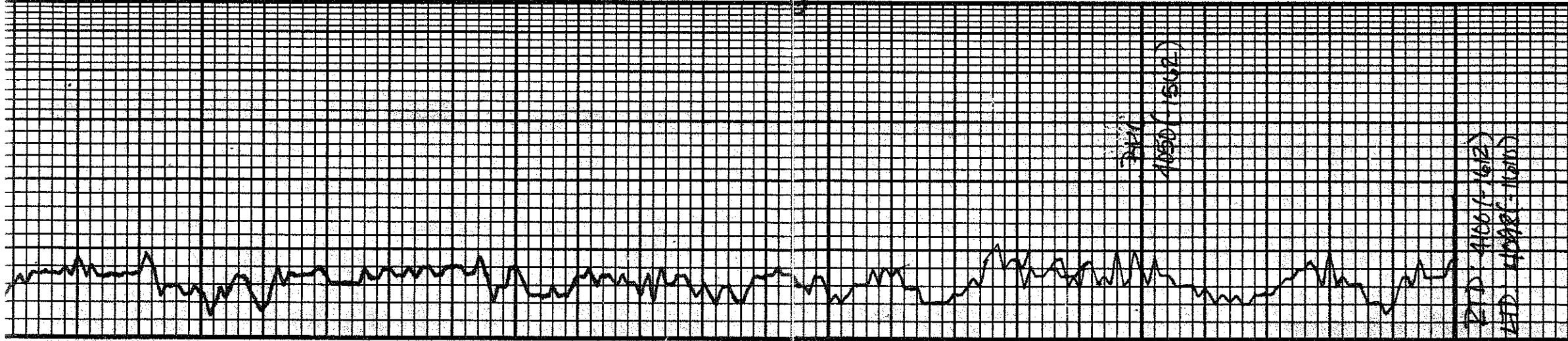
SN: Red v. arg.

LS: WNT - Brown int v. Gen
 v. dse

LS: WNT v. Gen. Fosses tan
 off int of PAUH

SN: v. dark arg

LS: Tan fine. Head int. in front
 of foss. In situ. Light color - 1.2 Bm
 5 ft
 1.2. int. Bm. started out of initial



3700

50

4000

50

4100

DIST #1

| | | | | | | | | | | | | |
|---|--|--|----------------|--|---|--|---|---|--------------------------------|-------------------------|-----------------|-----------------------|
| LS: Wnt fm sat stn Tan - off wnt Actv. | LS: Tan fm W good vng d + imbrn d vng sat stn strong odor vngs gsg sfs - v. d olomr hz lg amt acvtd | LS: Wnt Dm - Nb d All dse only latx | SN: Black covr | LS: Wnt fm W scatt vng introm d v sat stn v. A. odor misty all tft | LS: Wnt fm dety w vng oolm hss d vng sfs total Bnsat stn - v. strong odor | LS: Wnt, furred, sat hss. fr introm all sat stn, sft d SFS, H - fr ad. | LS: Wnt, sat, Fease cal scatgd sfs ing. fr Amt barrom ex, H Od. | LS: Wnt - team, furred Xh, prs all Ns. | LS: Wnt - Red Brown. green. | LS: Wnt f subvth dse | LS: Reddish Brn | LS: Wnt fm sll-od dse |
|---|--|--|----------------|--|---|--|---|---|--------------------------------|-------------------------|-----------------|-----------------------|

VIS 56
WT 8.6
ML 8.8
LOM 2#

DIST #1
3967-3995
45-45-45-45
Rec:
540' gip
125' gassy oil
IHP: 2030#
IIF: 48-52#
FAD: 50-65#
SP: 270-268#
OHP: 1862#

210: 4100/ (612)
120: 4000/ (610)

4150/ (562)

NA Dr. Wm

