



KANSAS CORPORATION COMMISSION 1080963
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 # 30717
Name: Downing-Nelson Oil Co Inc
Address 1: PO BOX 1019
Address 2: _____
City: HAYS State: KS Zip: 67601 + _____
Contact Person: Ron Nelson
Phone: (785) 621-2610
CONTRACTOR: License # 31548
Name: Discovery Drilling
Wellsite Geologist: Ron Nelson
Purchaser: Coffeyville

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SLOW
- 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 #: _____

<u>05/02/2012</u>	<u>05/06/2012</u>	<u>05/07/2012</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-195-22777-00-00

Spot Description: _____

E2 W2 W2 SW Sec. 14 Twp. 13 S. R. 21 East West

1320 Feet from North / South Line of Section

585 Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

County: Trego

Lease Name: Muhlheim AC Well #: 1-14

Field Name: _____

Producing Formation: Arbuckle

Elevation: Ground: 2229 Kelly Bushing: 2237

Total Depth: 3979 Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: 221 Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: 1592 Feet

If Alternate II completion, cement circulated from: 1592

feet depth to: 0 w/ 150 sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: 18000 ppm Fluid volume: 400 bbls

Dewatering method used: Evaporated

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: Deanna Garrison Date: 09/07/2012



1080963

Operator Name: Downing-Nelson Oil Co Inc Lease Name: Muhlheim AC Well #: 1-14
 Sec. 14 Twp. 13 S. R. 21 East West County: Trego

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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run: Micro Dual Induction Compensated Density / Neutron	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum Attached Attached Attached
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CASING RECORD <input checked="" 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
Surface pipe	12.25	8.625	23	221.32	Common	150	2% Gel & 3% CC
Production Casing	7.8750	5.5	14	3975.36	EA/2	150	

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
4	3858' to 3868'	750 gallons 15% Mud Acid	3858' to 3868'
		2000 gallons 15% INS Acid	3858' to 3868'

TUBING RECORD: Size: <u>2.375</u> Set At: <u>3852.60</u> Packer At: _____		Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Date of First, Resumed Production, SWD or ENHR. <u>06/28/2012</u>		Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____	
Estimated Production Per 24 Hours	Oil Bbls. <u>7</u>	Gas Mcf <u>0</u>	Water Bbls. <u>240</u> 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 checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Downing-Nelson Oil Co Inc
Well Name	Muhlheim AC 1-14
Doc ID	1080963

Tops

Name	Top	Depth
Top Anhydrite	1596'	+644
Base Anhydrite	1636'	+604
Topeka	3264'	-1024
Heebner	3496'	-1253
Toronto	3514'	-1274
LKC	3531'	-1291
BKC	3772'	-1532
Marmaton	3842'	-1602
Cherokee Shale	3880'	-1640
Arbuckle	3896'	-1656

QUALITY OILWELL CEMENTING, INC.

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

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

No. 381

Date	4-28-12	Sec.	14	Twp.	13	Range	21	County	TREGO	State	KANSAS	On Location		Finish	6:45 AM
Lease	MULLHSEN	Well No.	1-14			Location	RIGA STO FED 1/4 E - N INTO								
Contractor	DISCOVERY #2				Owner	DOWNTON & NELSON									
Type Job	S-SURFACE				To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish: cement and helper to assist owner or contractor to do work as listed.										
Hole Size	12 1/4"		T.D.	225											
Csg.	8 1/2"		Depth	221.32											
Tbg. Size			Depth												
Tool			Depth												
Cement Left in Csg.			Shoe Joint	15'											
Meas Line			Displace	13 BLS											
				Charge To	DOWNTON & NELSON										
				Street	PO BOX 1019										
				City	HAYS State KANSAS, 67601										
				The above was done to satisfaction and supervision of owner agent or contractor.											
				Cement Amount Ordered	150 com 3 3/4" 2 3/4" GEL										

EQUIPMENT

Pumptrk #9	No.	Cementer	RECK	Common	150
Bulktrk #14	No.	Driver	NECK	Poz. Mix	
Bulktrk #14	No.	Driver	CISCO	Gel.	3
				Calcium	3

JOB SERVICES & REMARKS

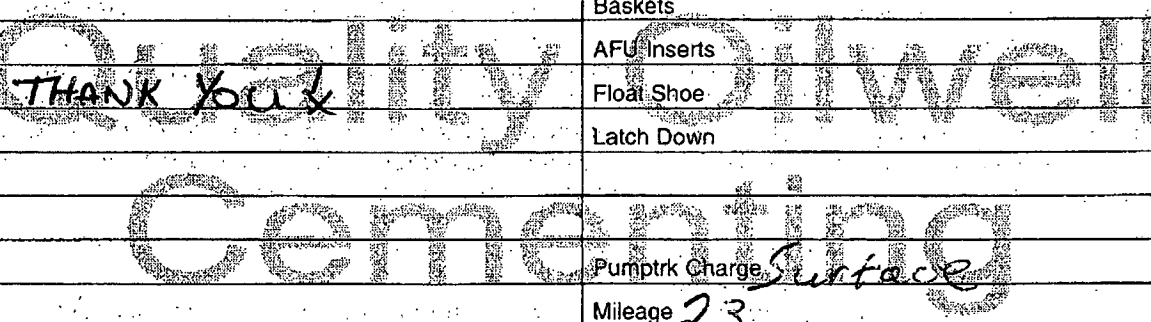
Remarks:	Hulls
Rat Hole	Salt
Mouse Hole	Flowseal
Centralizers	Kol-Seal
Baskets	Mud CLR 48
D/V or Port Collar	CFL-117 or CD110 CAF 38

CEMENT DID CIRCULATE &

Sand	
Handling	158'
Mileage	

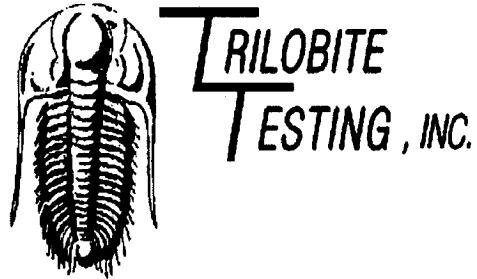
FLOAT EQUIPMENT

Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	



Pumptrk Charge	Surface
Mileage	23

X Signature: <i>[Signature]</i>	Tax	
	Discount	
	Total Charge	



DRILL STEM TEST REPORT

Prepared For: **Downing-Nelson Oil Co Inc**

PO Box 1019
Hays KS 67601

ATTN: Ron Nelson

Muhlheim AC #1-14

14-13s-21w Trego,KS

Start Date: 2012.05.03 @ 09:18:55

End Date: 2012.05.03 @ 16:44:55

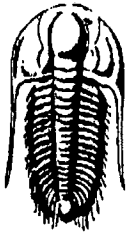
Job Ticket #: 44786 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.05.07 @ 14:55:39



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co Inc

14-13s-21w Trego,KS

PO Box 1019
Hays KS 67601

Muhlheim AC #1-14

Job Ticket: 44786

DST#: 1

ATTN: Ron Nelson

Test Start: 2012.05.03 @ 09:18:55

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:15:25

Time Test Ended: 16:44:55

Test Type: Conventional Bottom Hole (Initial)

Tester: Jeff Brown

Unit No: 59

Interval: **3856.00 ft (KB) To 3881.00 ft (KB) (TVD)**

Total Depth: 3881.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2240.00 ft (KB)

2234.00 ft (CF)

KB to GR/CF: 6.00 ft

Serial #: 8319

Outside

Press@RunDepth: 284.15 psig @ 3858.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.05.03

End Date:

2012.05.03

Last Calib.: 2012.05.03

Start Time: 09:19:00

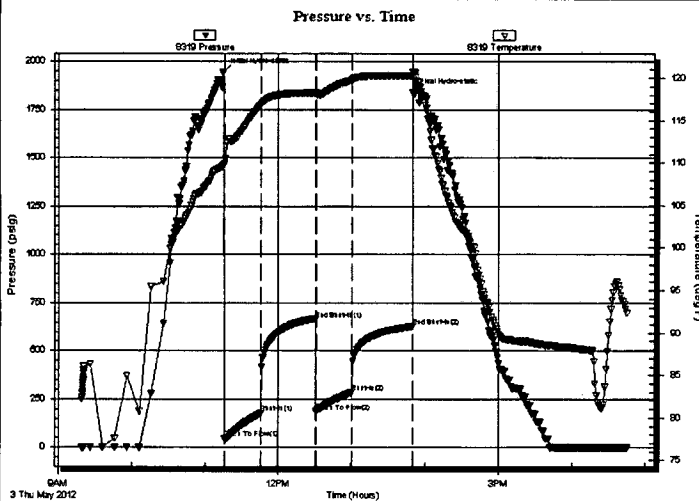
End Time:

16:45:54

Time On Btm: 2012.05.03 @ 11:14:55

Time Off Btm: 2012.05.03 @ 13:50:25

TEST COMMENT: IFF-Strong blow BOB in 2 1/2 min
ISI-Good blow back BOB in 33 min
FFP-Strong blow BOB in 4 min
FSI-Fair blow back built to 5 in



PRESSURE SUMMARY

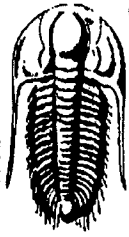
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1946.54	109.75	Initial Hydro-static
1	46.32	109.86	Open To Flow (1)
31	176.55	116.81	Shut-In(1)
76	663.50	118.24	End Shut-In(1)
76	184.67	118.14	Open To Flow (2)
106	284.15	119.75	Shut-In(2)
155	627.09	120.26	End Shut-In(2)
156	1838.47	120.73	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
40.00	MCGO 20%G 25%M 55%O	0.28
736.00	Gassy Oil 45%G 55%O	10.32
0.00	704 GIP-	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Downing-Nelson Oil Co Inc

PO Box 1019
Hays KS 67601

ATTN: Ron Nelson

14-13s-21w Trego,KS

Muhlheim AC #1-14

Job Ticket: 44786

DST#: 1

Test Start: 2012.05.03 @ 09:18:55

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:15:25

Time Test Ended: 16:44:55

Test Type: Conventional Bottom Hole (Initial)

Tester: Jeff Brown

Unit No: 59

Interval: **3856.00 ft (KB) To 3881.00 ft (KB) (TVD)**

Total Depth: 3881.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2240.00 ft (KB)

2234.00 ft (CF)

KB to GR/CF: 6.00 ft

Serial #: 8369

Inside

Press@RunDepth: psig @ 3858.00 ft (KB)

Start Date: 2012.05.03

End Date: 2012.05.03

Start Time: 09:19:00

End Time: 16:45:54

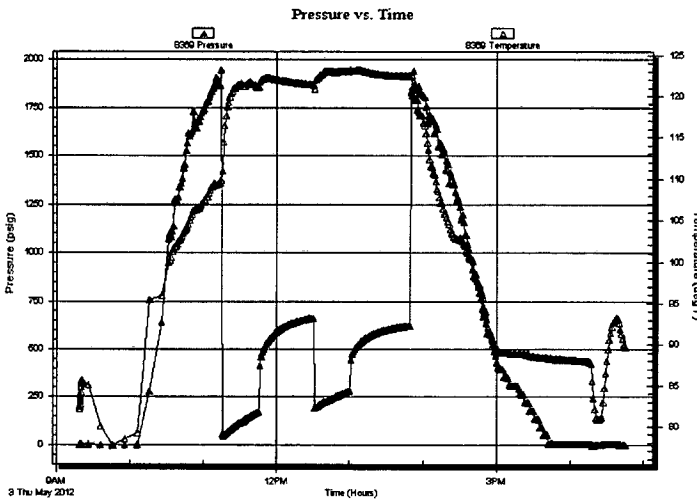
Capacity: 8000.00 psig

Last Calib.: 2012.05.03

Time On Btm:

Time Off Btm:

TEST COMMENT: IFP-Strong blow BOB in 2 1/2 min
ISI-Good blow back BOB in 33 min
FFP-Strong blow BOB in 4 min
FSI-Fair blow back built to 5 in



PRESSURE SUMMARY

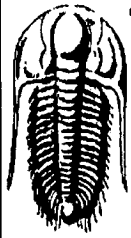
Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
40.00	MCGO 20%G 25%M 55%O	0.28
736.00	Gassy Oil 45%G 55%O	10.32
0.00	704 GIP-	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Dow ning-Nelson Oil Co Inc

14-13s-21w Trego,KS

PO Box 1019
Hays KS 67601

Muhlheim AC #1-14

Job Ticket: 44786

DST#: 1

ATTN: Ron Nelson

Test Start: 2012.05.03 @ 09:18:55

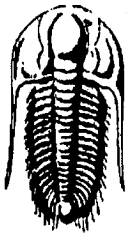
Tool Information

Drill Pipe:	Length: 3825.00 ft	Diameter: 3.80 inches	Volume: 53.65 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 74000.00 lb
			<u>Total Volume: 53.80 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial 59000.00 lb
Depth to Top Packer:	3856.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	25.00 ft			
Tool Length:	46.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3836.00	
Shut In Tool	5.00			3841.00	
Hydraulic tool	5.00			3846.00	
Packer	5.00			3851.00	21.00 Bottom Of Top Packer
Packer	5.00			3856.00	
Stubb	1.00			3857.00	
Perforations	1.00			3858.00	
Recorder	0.00	8369	Inside	3858.00	
Recorder	0.00	8319	Outside	3858.00	
Perforations	20.00			3878.00	
Bullnose	3.00			3881.00	25.00 Bottom Packers & Anchor

Total Tool Length: 46.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning-Nelson Oil Co Inc

14-13s-21w Trego,KS

PO Box 1019
Hays KS 67601

Muhlheim AC #1-14

Job Ticket: 44786

DST#: 1

ATTN: Ron Nelson

Test Start: 2012.05.03 @ 09:18:55

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

36 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
40.00	MCOG 20%G 25%M 55%O	0.279
736.00	Gassy Oil 45%G 55%O	10.324
0.00	704 GIP-	0.000

Total Length: 776.00 ft Total Volume: 10.603 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

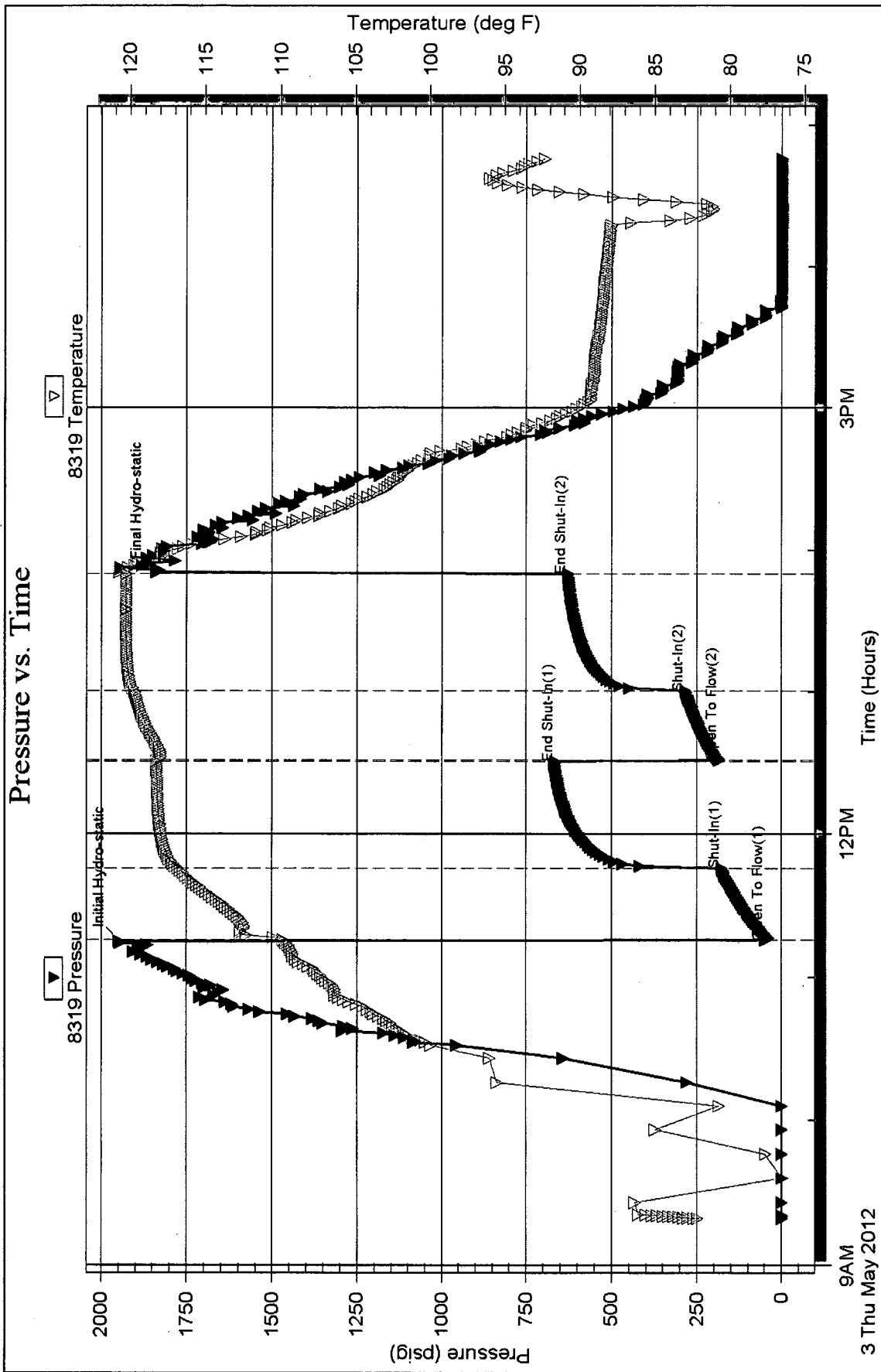
Serial #: 8319

Outside

Downing-Nelson Oil Co Inc

Muhheim AC #1-14

DST Test Number: 1



Printed: 2012.05.07 @ 14:55:41

Ref. No: 44786

Trilobite Testing, Inc

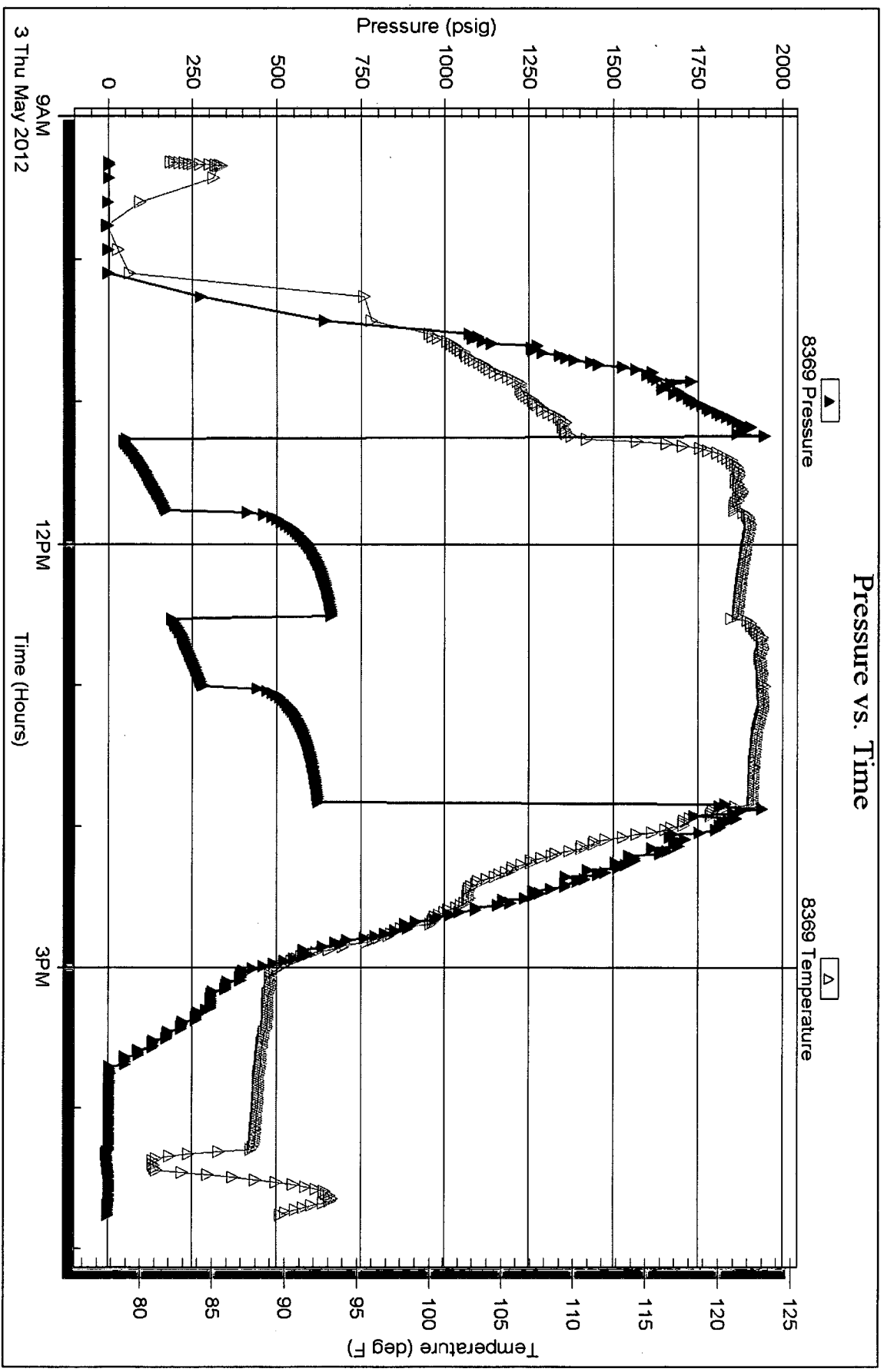
Serial #: 8369

Inside

Dow n/lng-Nelson Oil Co Inc

Muhlheim AC#1-14

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 44786

Printed: 2012.05.07 @ 14:55:41



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 44786

Well Name & No. Muhlheim AC 1-14 Test No. 1 Date 5-3-12
 Company Downing-Nelson Oil Co INC Elevation 2241 KB 2234 GL
 Address to Box 1019 Hays, KS 67601
 Co. Rep/Geo. Ron Nelson Rig Discovery #4
 Location: Sec. 14 Twp. 13 S Rge. 21 W Co. Trego State KS

Interval Tested 3856-3881 Zone Tested Margton
 Anchor Length 25 Drill Pipe Run 3825 Mud Wt. 89
 Top Packer Depth 3851 Drill Collars Run 31 Vis 560
 Bottom Packer Depth 3856 Wt. Pipe Run 0 WL 88
 Total Depth 3881 Chlorides 2800 ppm System LCM 2 1/2
 Blow Description HP-Strong Blow Bob IN 2 1/2 min
1st Good Blow Back BOB IN 33 min
HP-Strong Blow Bob IN 4 min
1st Fair Blow Back Built to 5 IN

Rec	Feet of	%gas	%oil	%water	%mud
40	MCGO	20	55		25
7320	CASSY OIL	45	55		
	704-GIP				

Rec Total 7760 BHT 120 Gravity 360 API RW @ _____ ° F Chlorides _____ ppm

(A) Initial Hydrostatic 1947 Test 1150' T-On Location 8:48
 (B) First Initial Flow 46 Jars _____ T-Started 9:18
 (C) First Final Flow 177 Safety Joint _____ T-Open 11:14
 (D) Initial Shut-In 2664 Circ Sub _____ T-Pulled 13:44
 (E) Second Initial Flow 185 Hourly Standby _____ T-Out 16:44
 (F) Second Final Flow 284 Mileage 42 RTW¹⁰ Comments _____
 (G) Final Shut-In 607 Sampler _____
 (H) Final Hydrostatic 1838 Sirddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Initial Open 30 Extra Recorder _____ Sub Total 0
 Initial Shut-In 45 Day Standby _____ Total 1215.10
 Final Flow 30 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 45 Sub Total 1215.10

Approved By _____ Our Representative Jeff Brown
 Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

DRILL STEM TESTS

No.	Interval	FP/Time	ISP/Time	FFP/Time	FSP/Time	IFF-RIN	REMARKS

REMARKS AND RECOMMENDATIONS: *BASED ON SAMPLES, DST #1, & LOG EVALUATION, & STRUCTURAL COMPARISONS, FLOW 5% PRODUCTIVE PIPE END*

COMPLETION: *ABRULING 3603-06'*

MAXIMATOR 3858-66'

LKC K 3730-88'

LKC I 3688-92'

LKC H 3666-90'






Before abandonment, perforate LKC E @ 3603-06'

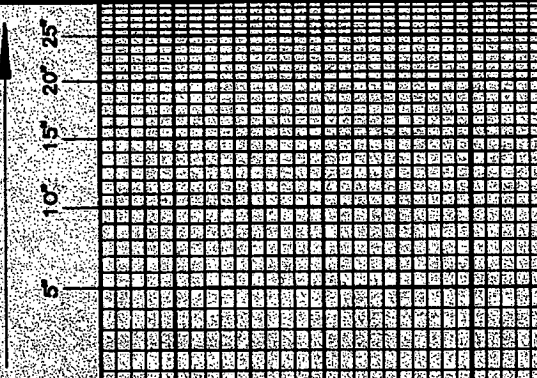
② @ 3556-60'

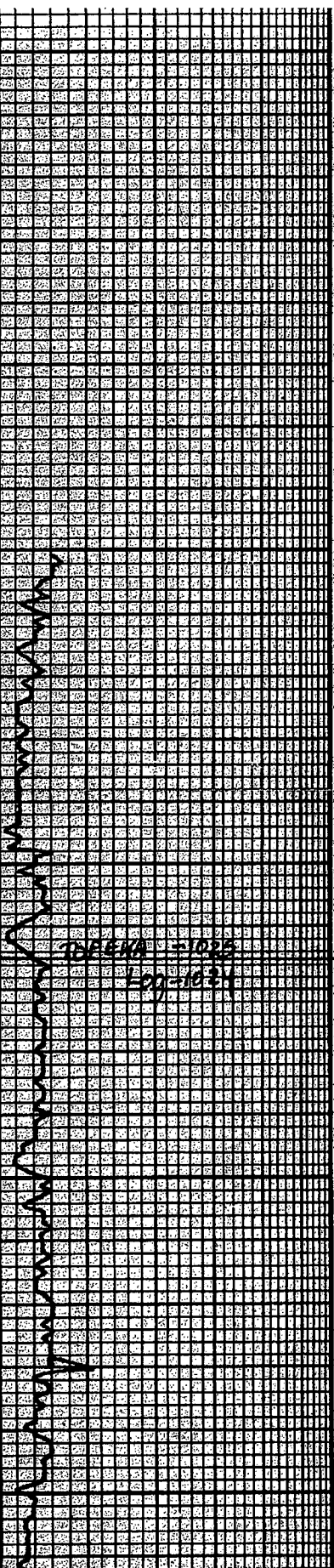
② @ 3532-38'

Roubelbas

LEGEND

-  Anhydrite
-  Salt
-  Sandstone
-  Shale
-  Carb. sh.
-  Limestone
-  Oil Limestone
-  Chert
-  Dolomite

DEPTH	SAMPLE DESCRIPTIONS	OIL SHOWS	REMARKS
<p>DRILLING TIME IN MINUTES PER FOOT Rate of Penetration Decreases</p> <p>5' 10' 15' 20' 25'</p> 			

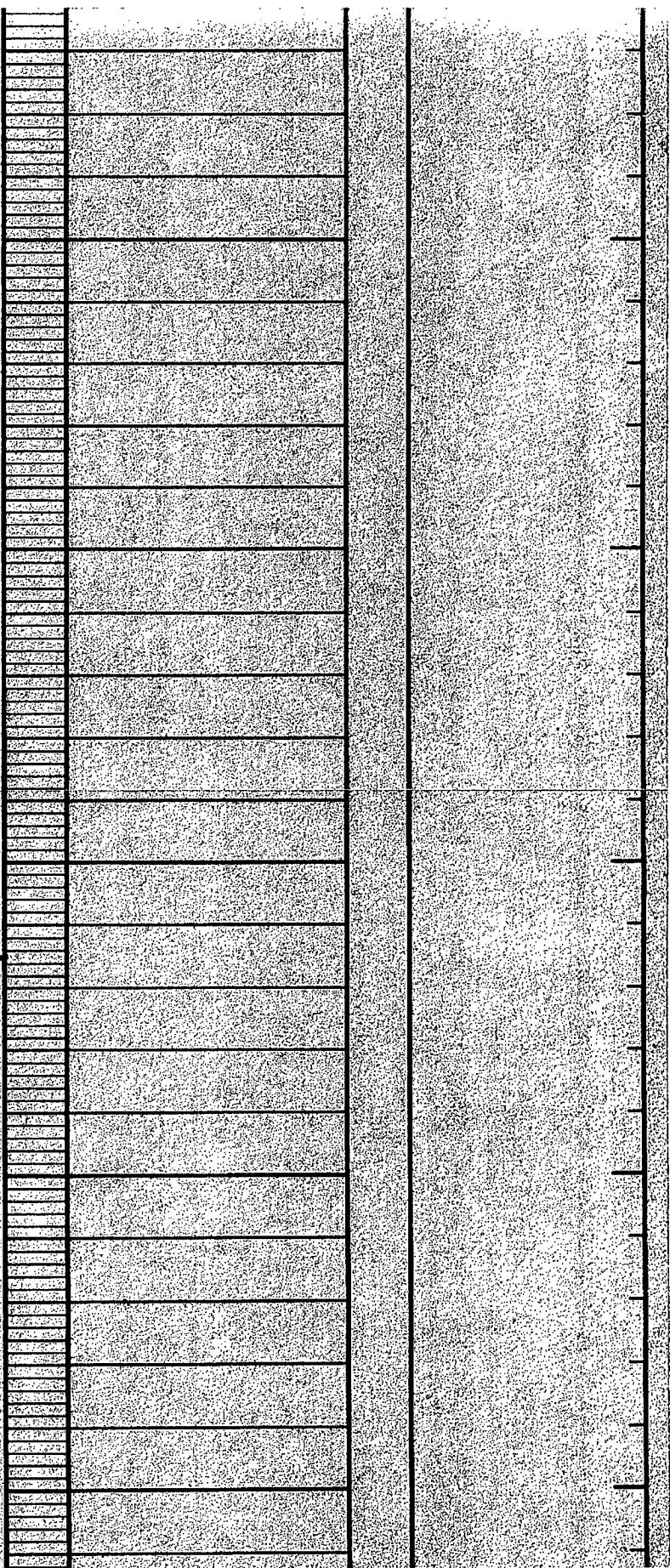


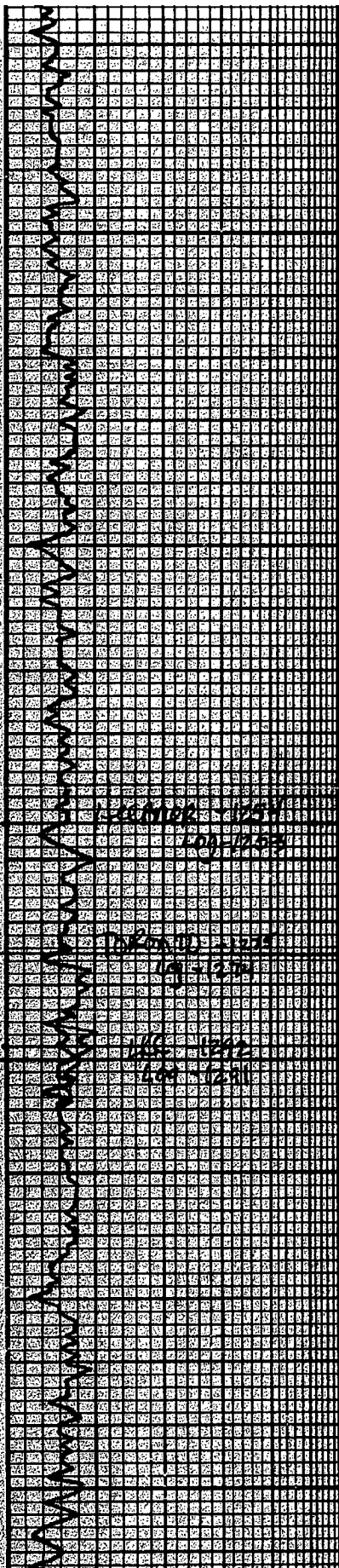
58.0

50

33.0

50





3400

9

3500

Sh. Black cam

Shs grey 8m
dk grey

Ls: tan to grey light as per
level 1 - tan to white N/S 6
w/ ad, m/s

sh dk grey

Ls: unit for totally cool w/
qd old - v. qd s/c - strong
odor

50

Ls: Tan fine w/ small infra
6 Jisit sta NSP 6

saxana

Ls: unit d/n - white cool w/
qd s/c - qd odor - v. lg cool

Sh: Am

Ls: Tan Am w/ small infra
v. s/dl sta - No odor

3600

Ls: Tan Am v. fine good
w/ qd s/c - qd odor - v. lg cool

3900
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