



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1131370
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

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
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

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

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical 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

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



1131370

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

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

INSTRUCTIONS: Show important tops 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.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

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 List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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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
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

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: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____
---	--

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> _____	PRODUCTION INTERVAL: _____ _____
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ALLIED OIL & GAS SERVICES, LLC 052645

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:
Liberal Ks.

DATE <u>01-17-13</u>	SEC. <u>8</u>	TWP. <u>2.5</u>	RANGE <u>42.W.</u>	CALLED OUT	ON LOCATION <u>10:00 a.m.</u>	JOB START <u>1:30</u>	JOB FINISH <u>2:30</u>
LEASE <u>Fox</u>	WELL# <u>1-8</u>	LOCATION <u>S.W. Syracuse Ks.</u>			COUNTY <u>Hamilton</u>	STATE <u>Ks.</u>	
OLD OR NEW (Circle one)					<u>1-01</u>	<u>11.3</u>	

CONTRACTOR _____
 TYPE OF JOB Long string
 HOLE SIZE 7 7/8 T.D. _____
 CASING SIZE 5.1/2 15.57 DEPTH 5313.68
 TUBING SIZE _____ DEPTH _____
 DRILL PIPE _____ DEPTH _____
 TOOL _____ DEPTH _____
 PRES. MAX _____ MINIMUM _____
 MEAS. LINE _____ SHOE JOINT 20.2ft
 CEMENT LEFT IN CSG. 20 feet
 PERFS. _____
 DISPLACEMENT 127.179 BBLs
 EQUIPMENT _____

OWNER Western Operating
 CEMENT _____
 AMOUNT ORDERED 175 sk ASC + 5# Gilsonite, 1/4 Fl/sk Fl Seal.
50 sk 60/140, 4% Gel.
 COMMON _____ @ _____
 POZMIX _____ @ _____
 GEL _____ @ _____
 CHLORIDE _____ @ _____
 ASCA 175 sk @ 20.90 3657.50
Gilsonite 875 lb @ .98 857.50
Super Flash 12 BBLs @ 58.70 704.40
Fl Seal 43.75 @ 2.97 129.93
Arc 2A 50 sk @ 15.95 797.50
 _____ @ _____
 _____ @ _____
 _____ @ _____
 HANDLING 238.6 ft @ 2.45 590.24
 MILEAGE 812.57 @ 2.60 2112.70
 TOTAL 8049.72

PUMP TRUCK CEMENTER Ruben Chavez
 # 531541 HELPER Cesar Pavia
 BULK TRUCK
 # 5621554 DRIVER Ricardo Estrada
 BULK TRUCK
 # _____ DRIVER _____

REMARKS:
Pump 5 BBLs H2O, 12 BBLs Mud flushed
5 BBLs H2O, Rebind, Mix + pump 175
sk 48 BBLs of slurry and displace it
with 12.7 BBLs of H2O; Pump
the plug at 2000ft; Released
pressure and flow hold. BLEB back
1 BBLs. Also pump 50 sk cement
for Rat Hole + Mouse Hole
Thank you.

CHARGE TO: Western Operating
 STREET _____
 CITY _____ STATE _____ ZIP _____

To: Allied Oil & Gas Services, LLC.
 You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME Gary Doken
 SIGNATURE [Signature]

SERVICE
 DEPTH OF JOB _____ 5313.68 ft
 PUMP TRUCK CHARGE _____ 3099.25
 EXTRA FOOTAGE _____ @ _____
 MILEAGE heavy Vehi. 75 @ 7.70 577.50
 MANIFOLD + Cem head 1 @ 275.00 275.00
 Light Vehicle 75 Mi @ 4.40 330.00
 _____ @ _____
 TOTAL 4,281.75

PLUG & FLOAT EQUIPMENT
5 1/2
 Centralizers 2.0 @ 57.53 1146.60
 Plug - L Down B 1 @ 324.09 324.09
 Float Shoe 1 @ 608.40 608.40
 T-lock bit 1 @ 83.07 83.07
 _____ @ _____
 TOTAL 2,162.16

SALES TAX (if Any) 606.55
 TOTAL CHARGES 15,293.68
 DISCOUNT 3058.74 IF PAID IN 30 DAYS
 NET = 12,234.94

ALLIED OIL & GAS SERVICES, LLC KB 052913

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:
Liberal KS

DATE <u>01-09-12</u>	SEC. <u>B</u>	TWP. <u>25</u>	RANGE <u>42W</u>	CALLED OUT	ON LOCATION	JOB START <u>09.00</u>	JOB FINISH <u>10.00</u>
LEASE <u>Fox</u>	WELL# <u>1-B</u>	LOCATION <u>Syracuse</u>			COUNTY <u>Hamilton</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one) <u>NEW</u>						1.01	7.3

CONTRACTOR <u>MurFin</u>	OWNER
TYPE OF JOB <u>Surface B 5/8</u>	CEMENT AMOUNT ORDERED
HOLE SIZE <u>12 1/4</u> T.D. <u>B50</u>	<u>300SKs 65/35 68% gel 3% CC 1/4 #/SK Flo-seal</u>
CASING SIZE <u>B 5/8</u> DEPTH <u>843</u>	<u>150SKs class A 3% CC</u>
TUBING SIZE DEPTH	COMMON <u>345SKs @ 17.90 6175.50</u>
DRILL PIPE DEPTH	POZMIX <u>105SKs @ 9.35 981.75</u>
TOOL DEPTH	GEL <u>18 SKs @ 23.40 421.20</u>
PRES. MAX <u>1500</u> MINIMUM	CHLORIDE @
MEAS. LINE SHOE JOINT <u>42.18</u>	ASC @
CEMENT LEFT IN CSG. <u>2.6 BBI 42.18 FT</u>	<u>CC 14 SKs @ 64.00 896.00</u>
PERFS.	<u>Flo-seal 75# @ 2.97 222.75</u>
DISPLACEMENT <u>51</u>	HANDLING <u>450 @ 2.48 1116.00</u>

EQUIPMENT

PUMP TRUCK CEMENTER <u>Ruben Chavez 1</u>
<u>531-541</u> HELPER <u>Cesar Phaviera 2</u>
BULK TRUCK
<u>456-251</u> DRIVER <u>Aldo Espinoza 3</u>
BULK TRUCK
DRIVER

MILEAGE <u>1586.25</u>	@ 2.60	<u>4124.25</u>
		TOTAL <u>13937.45</u>

REMARKS:

SERVICE

DEPTH OF JOB <u>B50</u>	
PUMP TRUCK CHARGE	<u>2058.50</u>
EXTRA FOOTAGE @	
MILEAGE <u>1586.25</u>	@ <u>2.70 577.50</u>
MANIFOLD Cement Head	@ <u>275.00 275.00</u>
<u>Light trucking 75</u>	@ <u>4.40 330.00</u>
<u>Additional hours 3</u>	@ <u>440.00 1320.00</u>
TOTAL <u>4561.00</u>	

CHARGE TO: Western Operating
STREET _____
CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

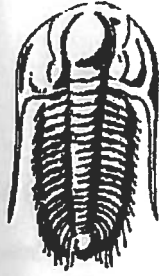
<u>3 - Centralizers</u>	@ <u>74.88</u>	<u>224.64</u>
<u>1 - AFU Insert</u>	@ <u>446.94</u>	<u>446.94</u>
<u>1 - wooden Plug</u>	@ <u>107.64</u>	<u>107.64</u>
		TOTAL <u>779.22</u>

To: Allied Oil & Gas Services, LLC.
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

SALES TAX (If Any) <u>691.77</u>
TOTAL CHARGES <u>19,277.67</u>
DISCOUNT <u>3,855.53</u> IF PAID IN 30 DAYS

PRINTED NAME Raymond B. Inhl
SIGNATURE [Signature]

NET = 15,422.14



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Western Operating Company**

518 17th Street Suite 200
Denver CO 80202

ATTN: Pete Debennan

Fox #1-8

8-25s-42w Hamilton,KS

Start Date: 2013.01.15 @ 09:06:15

End Date: 2013.01.15 @ 19:22:45

Job Ticket #: 49026 DST #: 1

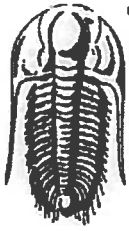
Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.01.18 @ 10:39:53

Western Operating Company 8-25s-42w Hamilton,KS Fox #1-8 DST # 1 Marrow A Sand 2013.01.15



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Western Operating Company

8-25s-42w Hamilton,KS

518 17th Street Suite 200
Denver CO 80202

Fox #1-8

Job Ticket: 49026

DST#: 1

ATTN: Pete Debennan

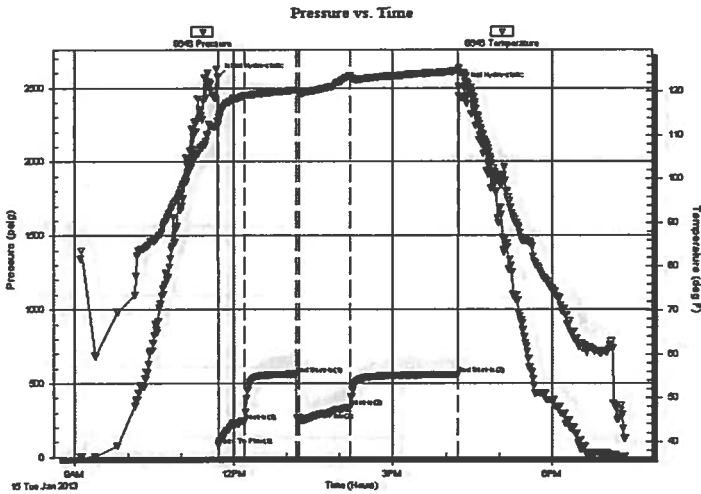
Test Start: 2013.01.15 @ 09:06:15

GENERAL INFORMATION:

Formation: **Marrow A Sand**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 11:42:30
 Tester: Mike Roberts
 Time Test Ended: 19:22:45
 Unit No: 65
 Interval: **5012.00 ft (KB) To 5070.00 ft (KB) (TVD)**
 Reference Elevations: 3606.00 ft (KB)
 Total Depth: 5070.00 ft (KB) (TVD)
 3596.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Fair
 KB to GR/CF: 10.00 ft

Serial #: 8646 Inside
 Press@RunDepth: 337.30 psig @ 5013.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.01.15 End Date: 2013.01.15 Last Calib.: 2013.01.15
 Start Time: 09:06:15 End Time: 19:22:45 Time On Btm: 2013.01.15 @ 11:42:15
 Time Off Btm: 2013.01.15 @ 16:14:45

TEST COMMENT: IF:BOB in 8 min.
 IS:Built to 8" blow ----bled off for 10 min.
 FF:BOB in 2 min.
 FS:BOB IN 2 min----bled off for 10 min.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2576.43	113.33	Initial Hydro-static
1	79.83	112.66	Open To Flow (1)
30	236.48	119.06	Shut-In(1)
89	561.11	120.34	End Shut-In(1)
92	245.81	119.67	Open To Flow (2)
150	337.30	123.57	Shut-In(2)
271	558.79	124.70	End Shut-In(2)
273	2512.45	125.14	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	GIP= 1196 feet	0.00
180.00	ocmg 10%o 40%m 50% g	0.00
275.00	ocgm 10%o 30%g 60%m	0.00
90.00	mcgo 10%m 20%g 70%o	0.00
276.00	mcog 10%m 20%o 70%g	3.86

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Western Operating Company

8-25s-42w Hamilton,KS

518 17th Street Suite 200
Denver CO 80202

Fox #1-8

Job Ticket: 49026

DST#: 1

ATTN: Pete Debennan

Test Start: 2013.01.15 @ 09:06:15

Tool Information

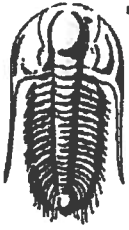
Drill Pipe:	Length: 4449.00 ft	Diameter: 3.80 inches	Volume: 62.41 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 546.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 62.41 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 80000.00 lb
Depth to Top Packer:	5012.00 ft			Final 82000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	58.00 ft			
Tool Length:	86.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4985.00	
Shut In Tool	5.00			4990.00	
Hydraulic tool	5.00			4995.00	
Jars	5.00			5000.00	
Safety Joint	3.00			5003.00	
Packer	5.00			5008.00	28.00 Bottom Of Top Packer
Packer	4.00			5012.00	
Stubb	1.00			5013.00	
Recorder	0.00	8646	Inside	5013.00	
Recorder	0.00	8365	Outside	5013.00	
Perforations	4.00			5017.00	
Change Over Sub	1.00			5018.00	
Drill Pipe	31.00			5049.00	
Change Over Sub	1.00			5050.00	
Perforations	15.00			5065.00	
Bullnose	5.00			5070.00	58.00 Bottom Packers & Anchor
Total Tool Length:	86.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Western Operating Company

8-25s-42w Hamilton,KS

518 17th Street Suite 200
Denver CO 80202

Fox #1-8

Job Ticket: 49026

DST#: 1

ATTN: Pete Debennan

Test Start: 2013.01.15 @ 09:06:15

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 46.00 sec/qt

Cushion Volume:

bbf

Water Loss: 8.77 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2300.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
0.00	GIP= 1196 feet	0.000
180.00	ocmg 10%o 40%m 50% g	0.000
275.00	ocgm 10%o 30%g 60%m	0.000
90.00	mcgo 10%m 20%g 70%o	0.000
276.00	mcog 10%m 20%o 70%g	3.858

Total Length: 821.00 ft

Total Volume: 3.858 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

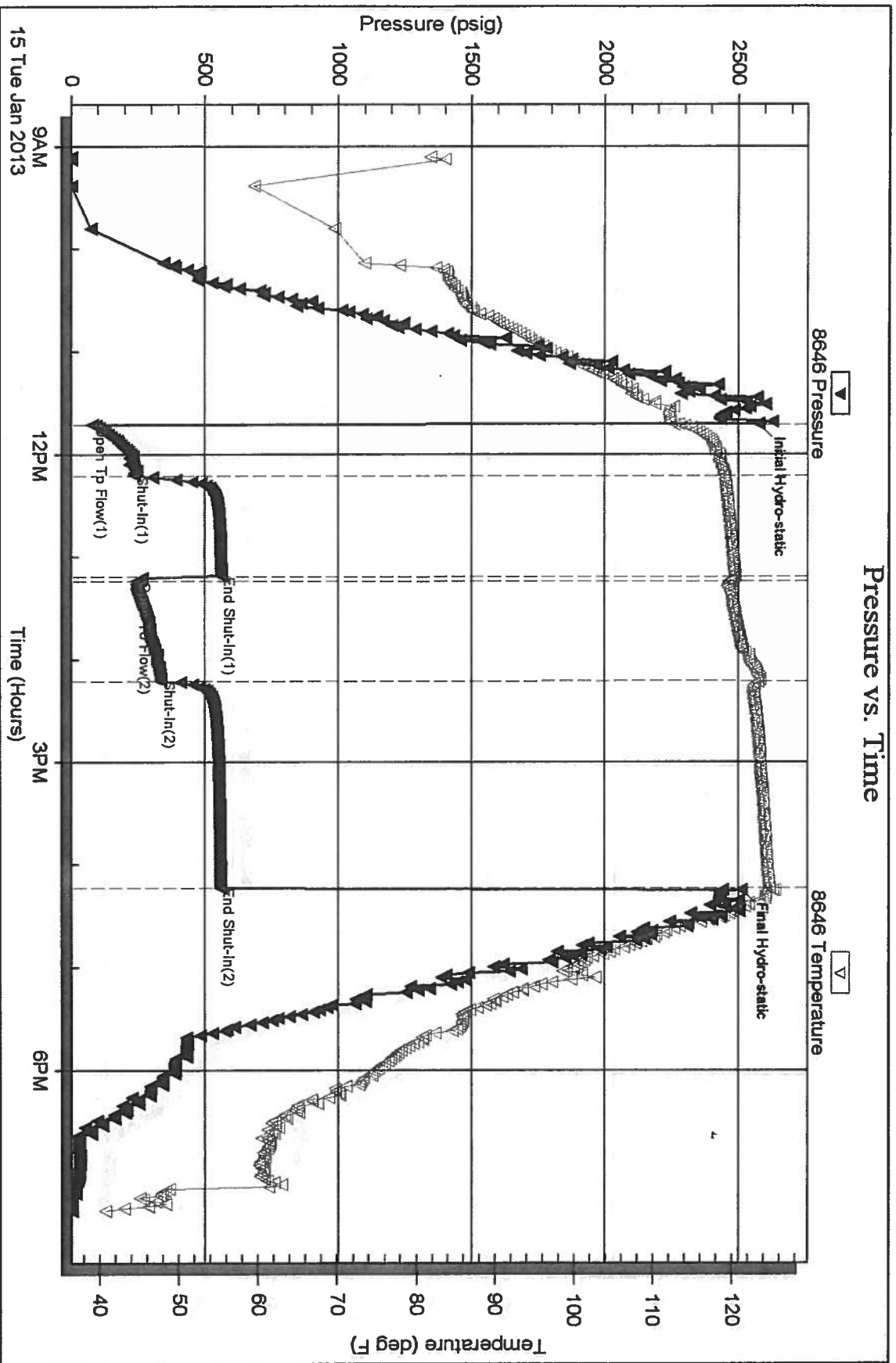
Serial #: 8646

Inside

Western Operating Company

Fox #1-8

DST Test Number: 1



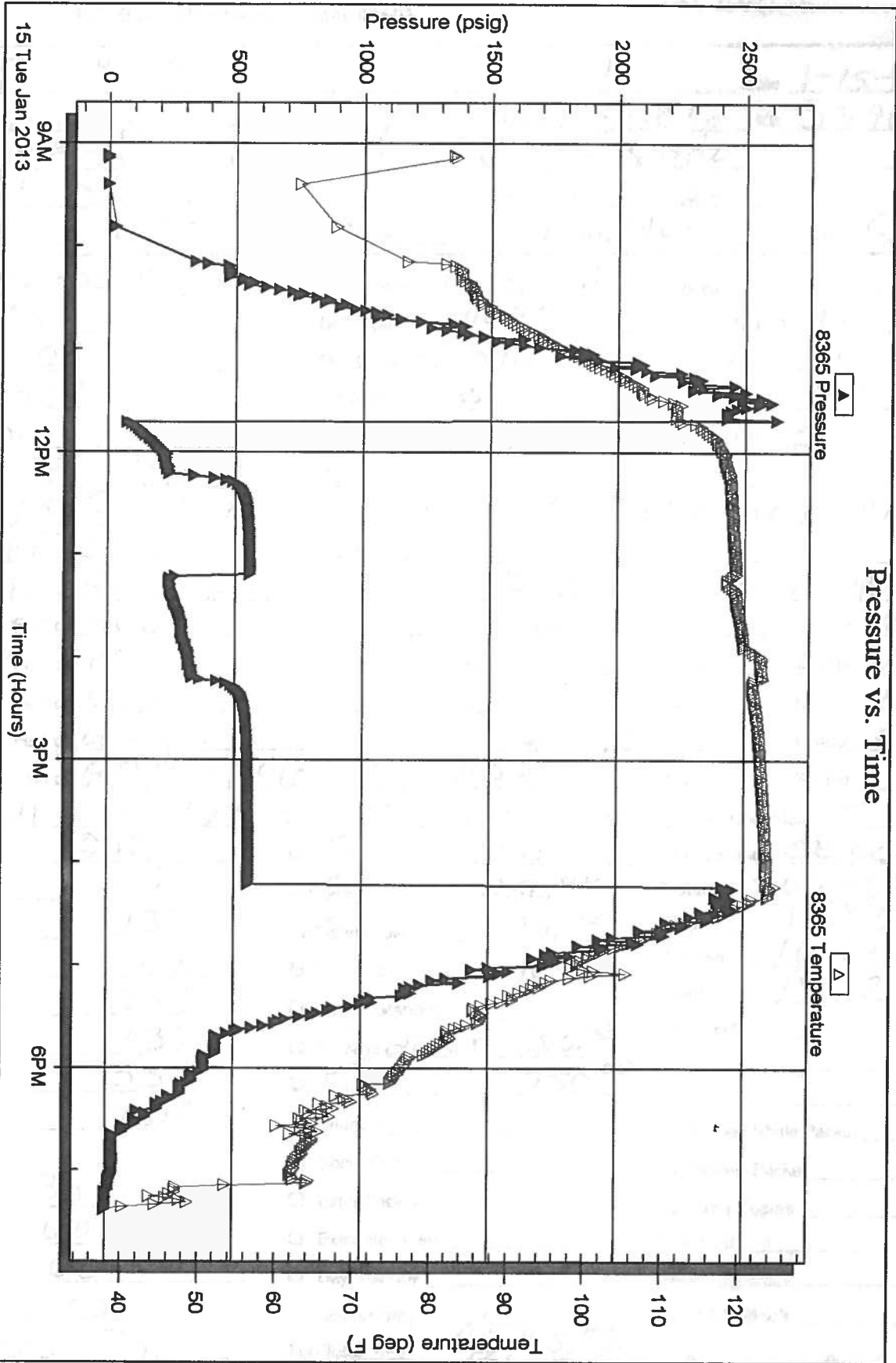
Serial #: 8365

Outside Western Operating Company

Fox #1-8

DST Test Number: 1

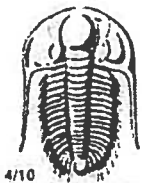
Pressure vs. Time



Triobite Testing, Inc

Ref. No: 49026

Printed: 2013.01.18 @ 10:39:58



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 49026

Well Name & No. FOX #1-8 Test No. 1 Date 1-15-03
 Company Western Operating Company Elevation 3606 KB 3596 GL
 Address 518 17th Street Suite 200 Denver CO 80202
 Co. Rep / Geo. Pete Debrannan Rig Murfin 25
 Location: Sec. B- Twp. 25 Rge. 42 Co. Hamilton State KS

Interval Tested 5012-5070 Zone Tested Marrow "A" Sand
 Anchor Length 58' Drill Pipe Run 4449 Mud Wt. 9.2
 Top Packer Depth 5008 Drill Collars Run 546 Vis 46
 Bottom Packer Depth 5012 Wt. Pipe Run Ø WL 8.8
 Total Depth 5070 Chlorides 2300 ppm System LCM 5

Blow Description IF: BOB in 8 Min
IS: Built to 8" Blow - Bled off for 10 Min
FF: BOB in 2 Min
FS: BOB in 2 Min - Bled off for 10 Min -

Rec	Feet of	%gas	%oil	%water	%mud
<u>90</u>	<u>mud</u>			<u>100</u>	
<u>276</u>	<u>mcoq</u>	<u>70</u>	<u>20</u>	<u>10</u>	
<u>275</u>	<u>ocgm</u>	<u>30</u>	<u>10</u>	<u>60</u>	
<u>180</u>	<u>ocgm</u>	<u>50</u>	<u>10</u>	<u>40</u>	
<u>Ø</u>	<u>GAP = 1190</u>	<u>100</u>			

Rec Total 821 BHT 125 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic	<u>2576</u>	<input checked="" type="checkbox"/> Test	<u>1350</u>	<u>1250.⁰⁰</u>	T-On Location	<u>08:00</u>
(B) First Initial Flow	<u>79</u>	<input checked="" type="checkbox"/> Jars		<u>250.⁰⁰</u>	T-Started	<u>09:06?</u>
(C) First Final Flow	<u>236</u>	<input checked="" type="checkbox"/> Safety Joint		<u>75.⁰⁰</u>	T-Open	<u>11:32</u>
(D) Initial Shut-In	<u>561</u>	<input checked="" type="checkbox"/> Circ Sub		<u>NC</u>	T-Pulled	<u>16:02</u>
(E) Second Initial Flow	<u>245</u>	<input type="checkbox"/> Hourly Standby			T-Out	<u>19:22</u>
(F) Second Final Flow	<u>337</u>	<input checked="" type="checkbox"/> Mileage	<u>200 RT</u>	<u>310.⁰⁰</u>	Comments	
(G) Final Shut-In	<u>558</u>	<input checked="" type="checkbox"/> Sampler		<u>250.⁰⁰</u>		
(H) Final Hydrostatic	<u>2512</u>	<input type="checkbox"/> Straddle			<input type="checkbox"/> Ruined Shale Packer	

Initial Open 30 Shale Packer
 Initial Shut-In 60 Extra Packer
 Final Flow 60 Extra Recorder
 Final Shut-In 120 Day Standby
 Accessibility
 Sub Total 2235 #2445.⁰⁰ MP/DST Disc'l

Approved By [Signature] Our Representative [Signature]

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.



TRILOBITE TESTING, INC.

P.O. Box 362 • Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 49026 Date 1-15-13
 Company Name Western Operating Company
 Lease Fox 1-8 Test No. 1
 County Hamilton Sec. 8 Twp. 25 Rng. 42

SAMPLER RECOVERY

Gas 150 ML
 Oil 30 ML
 Mud 120 ML
 Water Ø ML
 Other _____ ML
 Pressure 18 cubic feet gas ML
 Total 300 ML

PIT MUD ANALYSIS

Chlorides 2300 ppm.
 Resistivity Ø ohms @ _____ F
 Viscosity 46
 Mud Weight 9.2
 Filtrate 8.8
 Other LCM 5

SAMPLER ANALYSIS

Resistivity _____ ohms @ _____ F
 Chlorides _____ ppm.
 Gravity _____ corrected @60F

PIPE RECOVERY

TOP
 Resistivity _____ ohms @ _____ F
 Chlorides _____ ppm.
MIDDLE
 Resistivity _____ ohms @ _____ F
 Chlorides _____ ppm.
BOTTOM
 Resistivity _____ ohms @ _____ F
 Chlorides _____ ppm.

Petrolific Consulting Services

Peter Debenham

P.O. Box 350
Drake, Colorado 80515

Wellsite Geology

720/220-4860
petrolific@earthlink.net

Scale 1:240 (5"=100') Imperial

Well Name: Western Operating Company, Fox No. 1-8

Location: 335'FNL & 495'FWL, Section 8, 25S, R42W, Hamilton Co., KS

Licence Number: API: 15-075-20866

Region: Hougoton

Spud Date: 1/8/13

Drilling Completed: 1/16/13

Surface Coordinates: 335'FNL & 495'FWL, Section 8, 25S, R42W, Hamilton Co., KS

Bottom Hole Coordinates: 335'FNL & 495'FWL, Section 8, 25S, R42W, Hamilton Co., KS

Ground Elevation (ft): 3596'

K.B. Elevation (ft): 3609'

Logged Interval (ft): 2400'

To: TD

Total Depth (ft): 5400'

Formation: Chase, Lansing, Morrow, Keyes, Mississippi

Type of Drilling Fluid: Chemical Gel/LSND/LCM, mud up 3658'

Printed by MUD.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: Western Operating Company

Address: 518th 17th Street, Suite 200

Denver, CO 80202

Pres.: Steve James

GEOLOGIST

Name: Wellsite: Peter Debenham

Company: Petrolific Consulting Services

Address: P.O. Box 350

Drake, CO 80515

720/220-4860, Petrolific@gmail.com

DSTs

DST No. 1(5012'-5070'), Morrow "A" SS

Times: 30-60-60-120

Blows: IF-BOB in 8 min., FF: BOB in 2 min., ISI & FSI: Bled off & BOB blowback.

IH: 2576

IF: 70 - 236

ISI: 561

FF: 245 - 337

FSI: 558

FH n 2512

Recovery: 1196' GIP, 90' mud, 276' MCGM(30% G, 10% O), 275' OCGM(50% G, 10% O), 180' OCMG(50% G, 10% O), SPL Chanber - 150 ML G, 30 ML O, 120 ML M)

Comments

Mrufin Rig. No. 25, T.P. Ray Bland, jackknife tripple stand, Service Mud/MudCo., Engineer Tony Maestas, Trilobite Testing, Weatherford logs. Ran production csg to TD on 1/16/13.

ROCK TYPES

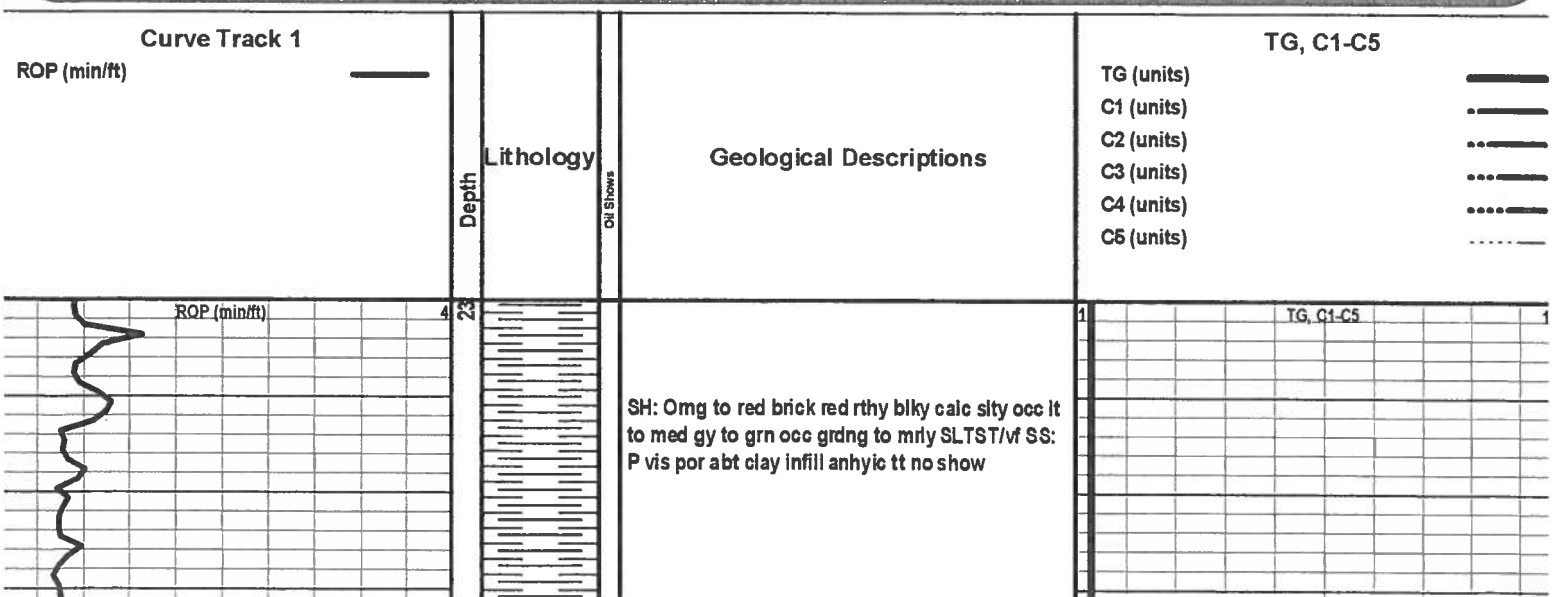
Anhy	Clyst	Gyp	Mrlst	Shgy
Bent	Coal	Igne	Salt	Sltst
Brec	Congl	Lmst	Shale	Ss
Cht	Dol	Meta	Shcol	Till

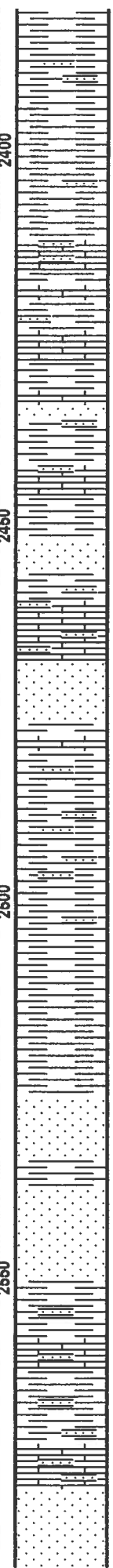
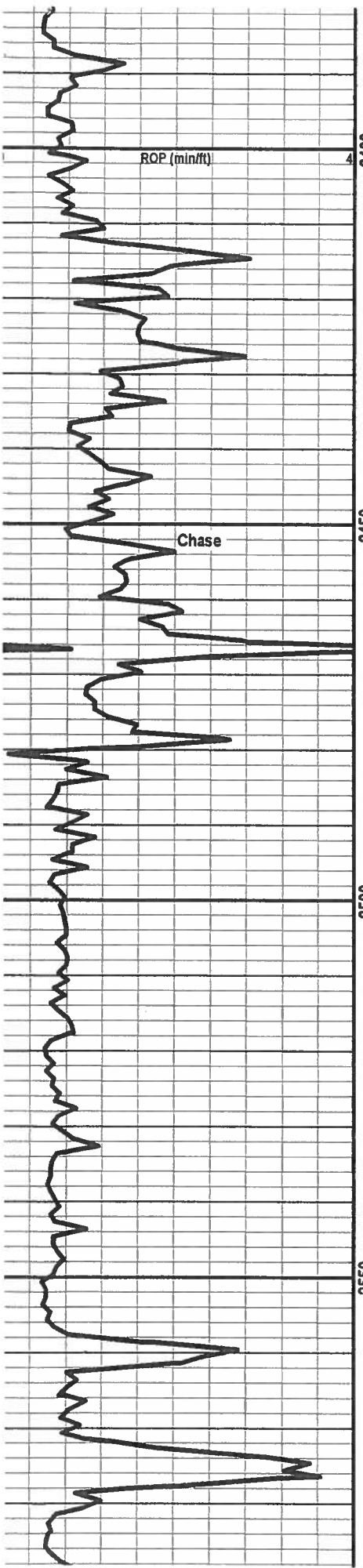
ACCESSORIES

FOSSIL	Ostra	Chtdk	Sandy	Ssstrg
Algae	Pelec	Chtlt	Silt	TEXTURE
Amph	Pellet	Dol	Sil	Boundst
Belm	Pisolite	Feldspar	Sulphur	Chalky
Bioclst	Plant	Ferrpei	Tuff	Cryxln
Brach	Strom	Ferr	STRINGER	Earthy
Bryozoa	MINERAL	Glau	Anhy	Finexln
Cephal	Anhy	Gyp	Arg	Grainst
Coral	Arggrn	Hvymin	Bent	Lithogr
Crin	Arg	Kaol	Coal	Microxln
Echin	Bent	Marl	Dol	Mudst
Fish	Bit	Minxl	Gyp	Packst
Foram	Brecfrag	Nodule	Ls	Wackest
Fossil	Calc	Phos	Mrst	
Gastro	Carb	Pyr	Sltstrg	
Oolite		Salt		

OTHER SYMBOLS

INTERVALS	POROSITY TYPE	Pinpoint	ROUNDING	OIL SHOWS
Core	Earthy	Vuggy	Rounded	Even
Dst	Fenest	SORTING	Subrnd	Spotted
EVENTS	Fracture	Well	Subang	Ques
Rft	Inter	Moderate	Angular	Dead
Sidewall	Moldic	Poor		
	Organic			





LS: Med to lt mot bm to gy redbrn micr crpxln hd dns sity arg to mry ip foss tt no show intbd with SH: Redbrn to omg brick red rthy blkly sity anyhic grdng to SLTST/VF SS: Lt gy to gn it brn bf frm bfit vf w srted grs calc & clay cmt anyhic ip mica tt to occ fr intgran por no flor no stn or cut

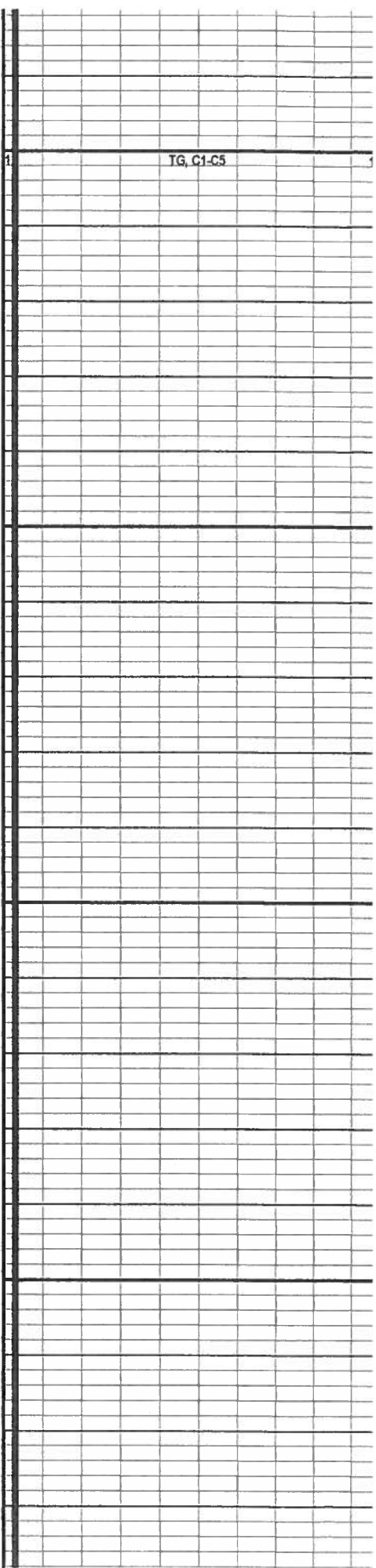
SLTST/VF SS: Lt gy to gn it brn bf frm bfit vf w srted grs calc & clay cmt anyhic ip mica tt to occ fr intgran por no flor no stn or cut intbd with SH: Omg to red brick red rthy blkly calc sity occ it to med gy to gm tr LS: Med to lt mot bm to gy redbrn micr crpxln hd dns sity arg to mry ip foss tt no show

SH: Redbrn to omg brick red frm blkly rthy sity to sndy & occ grdng to SLTST/VF SS: Lt gy to gn it brn bf frm bfit vf w srted grs calc & clay cmt anyhic ip mica tt to occ fr intgran por no flor no stn or cut intbd

SLTST/VF SS: Lt brn to omg red tan bf brit fri arg to mry ip calc anyhic occ ln with intgran por no show intbd with SH: aa

SH: Omg to red brick red rthy blkly calc sity occ it to med gy to gm tr LS: Med to lt mot bm to gy redbrn micr crpxln hd dns sity arg to mry ip foss tt no show

SLTST/VF SS: Lt brn to omg red tan bf brit fri arg to mry ip calc anyhic occ ln with intgran por no show intbd with SH: aa



ROP (min/ft)

2600

2650

2700

2750

SH: Redbrn to omg brick red frm blkly rthy slty to sndy & occ grdng to SLTST/VF SS: Lt gy to gn it brn bf fm bfit vf w srtid grs calc & clay cmt anyhic ip mica tt to occ fr intgran por no flbr no stn or cut intbd

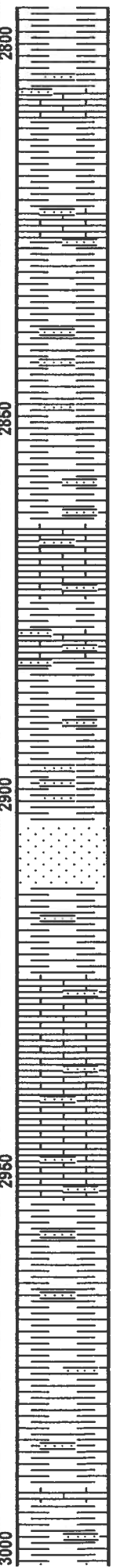
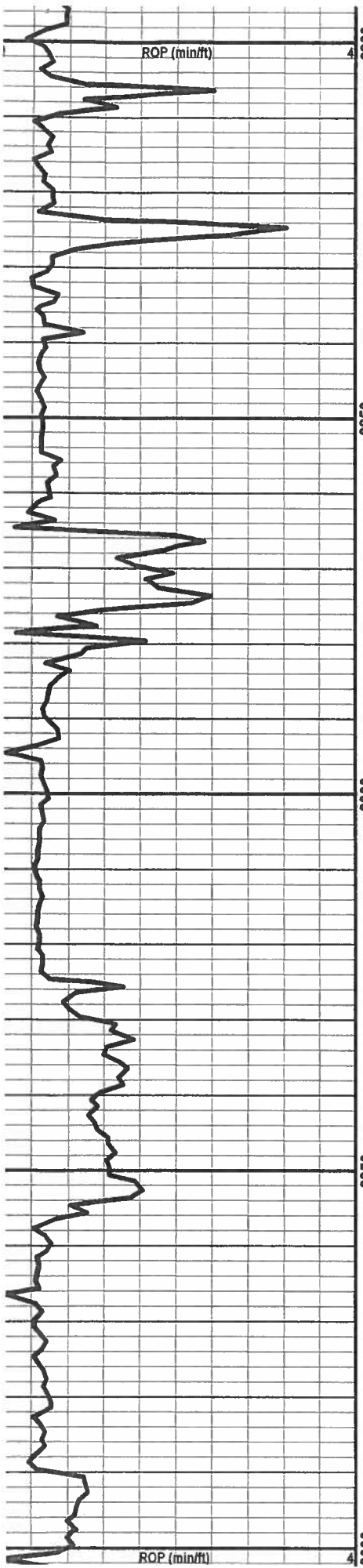
SS: Lt brn to orng red tan bf brit fri arg to mrlly ip calc anyhic occ ln with intgran por no show intbd with SH: aa Brick red to orng rthy blkly calc anyhic slty to sndy

LS: Mot redbrn to bm gy orng micr f xln hd dns arg to mrlly ip slty carb tt no show intbd with SH: Brick red to orng rthy blkly calc anyhic slty to sndy anc occ grdng to vf SS: arg to mrlly abt clay infill tt no show

SH: Red to orng brn brick red frm to hd blkly rthy calc slty to sndy & grdng to mrlly SLTST/VF SS: Lt brn to orng red tan bf brit fri arg to mrlly ip calc anyhic occ intgran por no show

TG, C1-C5

1



LS: Lt to dk mot omg to brn varic ip mic crpxln
hd dns cln to arg sity tt no show intbd with SH:
Med red to omg brn varic ip biky rthy calc sity occ
grndg to SLTST: tt clay infill no show

SH: Med red to omg brn varic ip biky rthy calc sity
occ grndg to SLTST: tt clay infill no show

LS: Mot brn gy wh crpxln hd dns cln tt no show

SH: Med red to omg brn varic ip biky rthy calc sity
occ grndg to SLTST: tt clay infill no show

SLTST/VF SS: Lt brn to orng red tan bf brit fri arg
to mly ip calc anyic occ intgran por no show
with intbd SH: aa

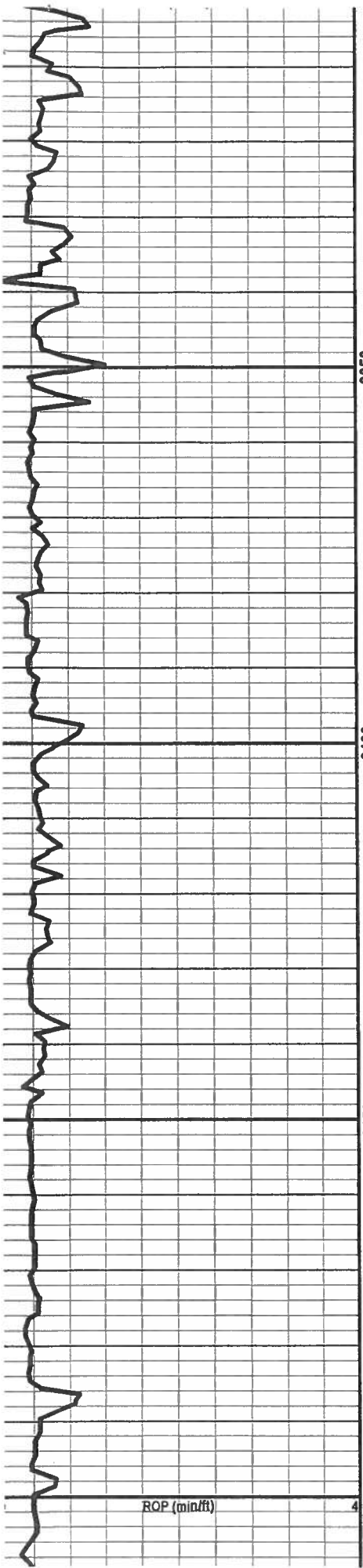
LS: Mot brn gy wh crpxln hd dns cln tt no show

SH: Med red to omg brn varic ip biky rthy calc sity
occ grndg to SLTST: tt clay infill no show

LS: Mot brn gy wh crpxln hd dns cln tt no show
intbd with SH: Med red to omg brn varic ip biky
rthy calc sity occ grndg to SLTST: tt clay infill no show

TG_C1-C5

TG_C1-C5



snow

SH: Med red to omg brn varic ip blkly rthy calc sity
occ grndg to SLTST: tt clay infill no show

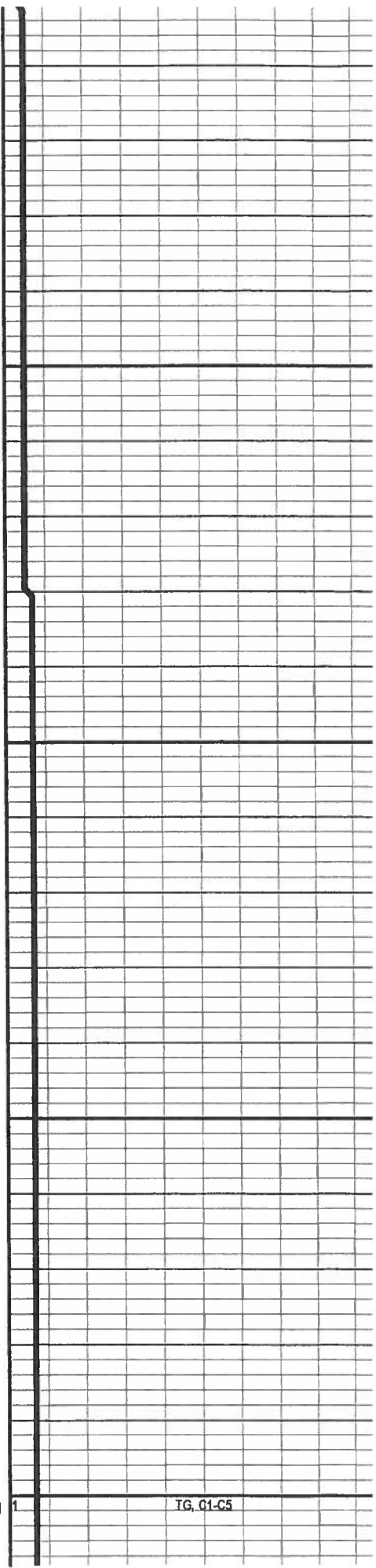
LS: Mot brn gy wh crpxln hd dns cln tt no show
Intbd with SH: Med red to omg brn varic ip blkly
rthy calc sity occ grndg to SLTST: tt clay infill no
show

SH: Med red to omg brn varic ip blkly rthy calc sity
occ grndg to SLTST: tt clay infill no show

LS: Mot brn gy wh crpxln hd dns cln tt no show
Intbd with SH: Med red to omg brn varic ip blkly
rthy calc sity occ grndg to SLTST: tt clay infill no
show

SH: Red to orng gy to gygn redbm varic ip rthy
blkly sndy calc occ intbd with LS: Redbrn gy gygn
to gn med to dk mot brn varic ip crpxln hd dns
sity arg carb foss tt no show

SLTST/VF SS: Med mot bm gy hd dns sl fri f w
srted sbrnd grs calc & clay cmt mica carb tt no
show occ intbd with LS: Mot brn gy wh crpxln hd
dns cln tt no show intbd with SH: Med red to omg
brn varic ip blkly rthy calc sity



ROP (min/ft)

4

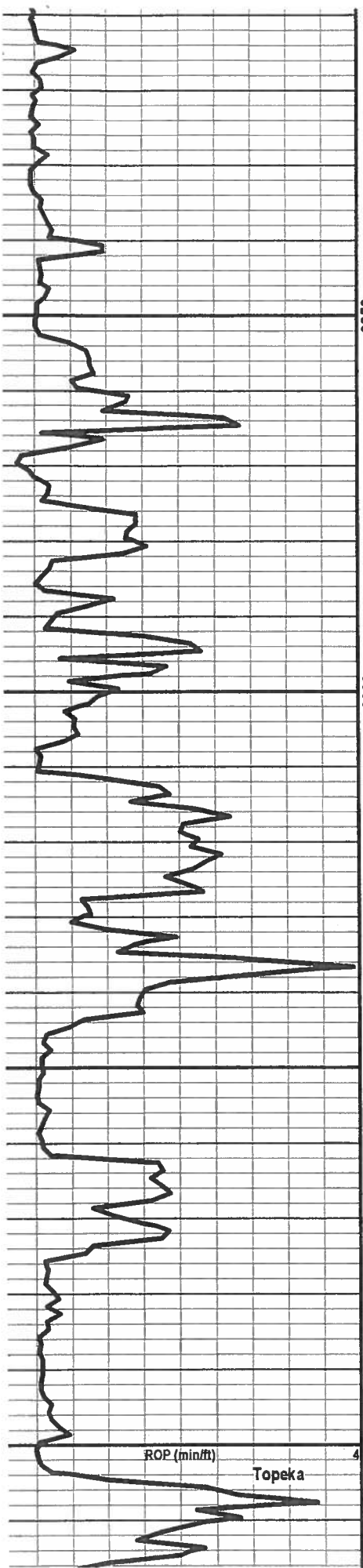
3050

3100

3150

3200

TG, C1-C5



SH: aa rthy vric blkly v sndy and grdng to SLTST/VF SS: Med mot bm gy hd dns sl fri f w srted sbrnd grs calc & clay cmt mica carb tt no show occ intbd with LS: Mot brn gy wh crpxln hd dns cln tt no show intbd with SH: Med red to omg brn varic ip blkly rthy calc sity

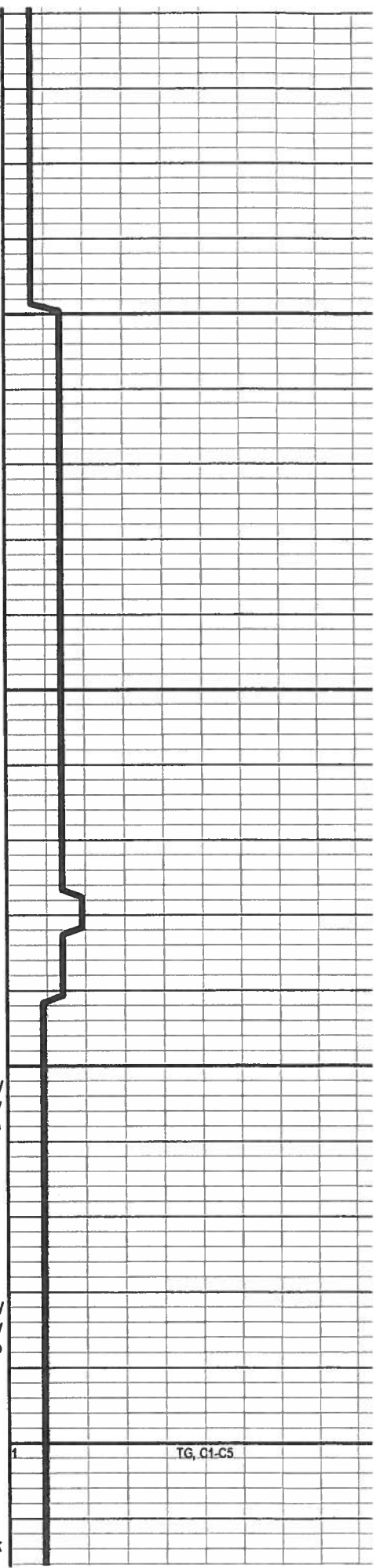
LS: Med to lt brn bf gy wh tan micr crypt to microxl n micsuc sbchky ip cln sndy p vis por min flor no stn or cut intbd with SH: Mot gy to brn redbrn orng varic ip rthy blkly calc sndy

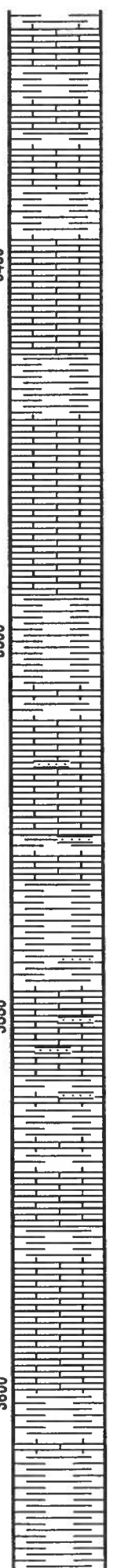
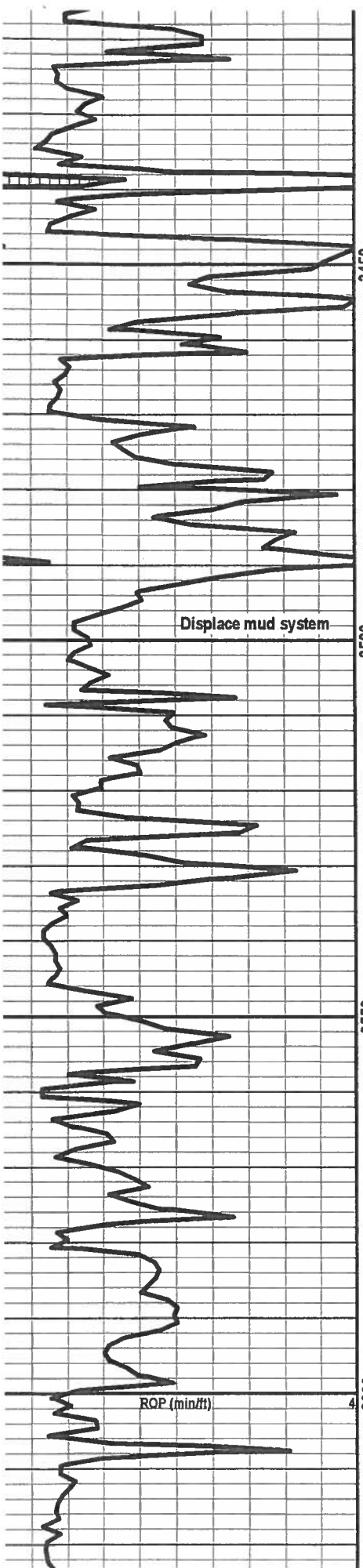
LS: Med to lt brn bf gy wh tan micr crypt to microxl n micsuc sbchky ip cln sndy p vis por min flor no stn or cut intbd with SH: Mot gy to brn redbrn orng varic ip rthy blkly calc sndy

SH: Med to dk mot redbrn to brn gy gygn rthy blkly v sndy & grdng to mrly SS: Calc med to dk mot gy to brn redbrn hd dns clay cmt calc carb inclt no show with LS: aa crpxln hd dns tt no show

SH: Med to dk mot redbrn to brn gy gygn rthy blkly v sndy & grdng to mrly SS: Calc med to dk mot gy to brn redbrn hd dns clay cmt calc carb inclt no show

LS: Lt brn bf wh micr micxl n micsuc brit cln sbchky foss p vis por no flor no stn or cut tr CHRT: Trnsi clr mky xln with SH: Med to dk gy dk





brn redbm blk y calc shty

LS: Pred aa sft & chky ip ooc intxn por no show

SH: Dk brn to blk frm blk y to sbfis carb calc intbd with LS: Lt brn bf wh micr micxn micsuc brit cln sbchky foss p vis por no flor no stn or cut tr CHRT: Trnsl clr mlky xln

LS: Lt brn bf wh micr micxn micsuc brit cln sbchky foss p vis por no flor no stn or cut

SH: Med to dk brn blk frm sbfis to blk y carb calc slty ip

LS: Lt brn bf wh micxn micsuc dns chky brit cln sndy tr intxn por no flor no stn or cut

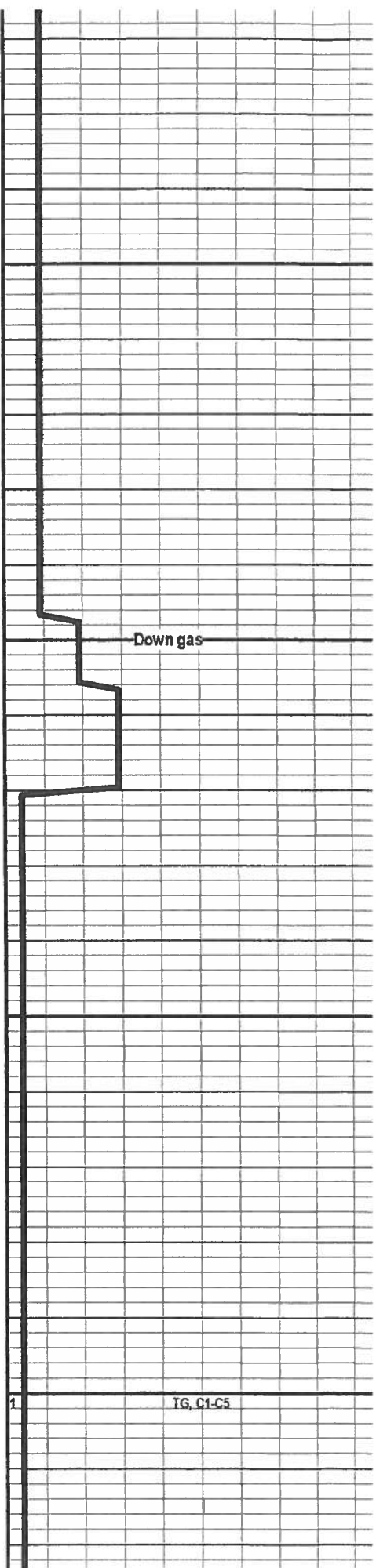
SH: Med to dk gy brn gygn blk y to sbfis carb calc sndy intbd with LS: Pred aa hd dns crpxn sil ip foss p vis por no show

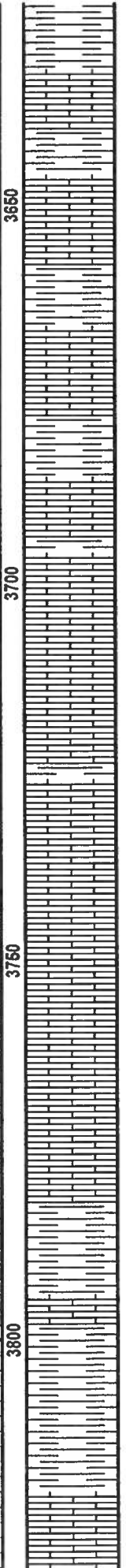
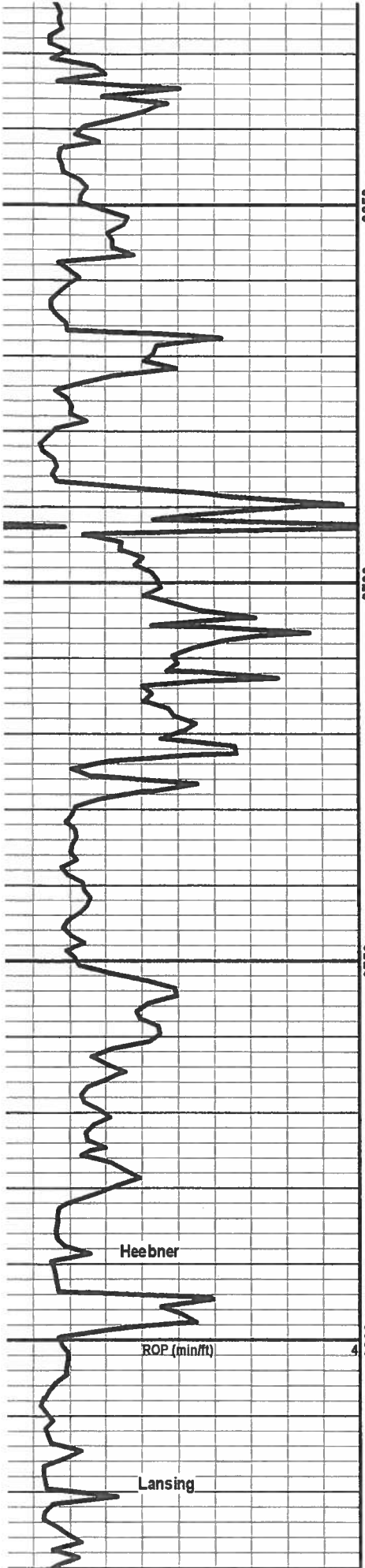
LS: Lt brn bf wh micxn micsuc dns chky brit cln sndy tr intxn por no flor no stn or cut with LS: Crpxn hd dns sil intbd with SH: aa

LS: Lt to med mot gy mot brn micxn micsuc brit cln to mrlly sbchky ip foss carb tr intxn por foss with tr moldic por no flor no stn or cut intbd with SH

LS: Lt to med mot gy mot brn micxn micsuc brit cln to mrlly sbchky ip foss carb tr intxn por foss with tr moldic por no flor no stn or cut

SH: Mot gy brn redbm to gy gygn frm blk y v sndy calc foss ip ooc intbd with LS: Med to lt mot brn gy gygn micxn micsuc brit cln to arg foss v sndy tr intxn & ooc moldic por no flor no stn or cut





LS: Med to lt mot brn gy gygn micxln micsuc brit
 cln to arg foss v sndy tr intxln & ooc moldic por
 no flor no stn or cut intbd with SH: Mot gy brn
 redbrn to gy gygn frm blk y v sndy calc foss ip

SH: Blk dk gy frm sbfis to blk yxy to sndy carb
 calc

LS: Med mot brn gy micr crpxln hd dns cln to arg
 foss carb sndy ip ooc intxln por no show

LS: Med mot brn gy micr crpxln hd dns cln to arg
 foss carb sndy ip ooc intxln por no show

LS: Mot gy wh bf brit sft chky cln foss ooc intxln
 por no show

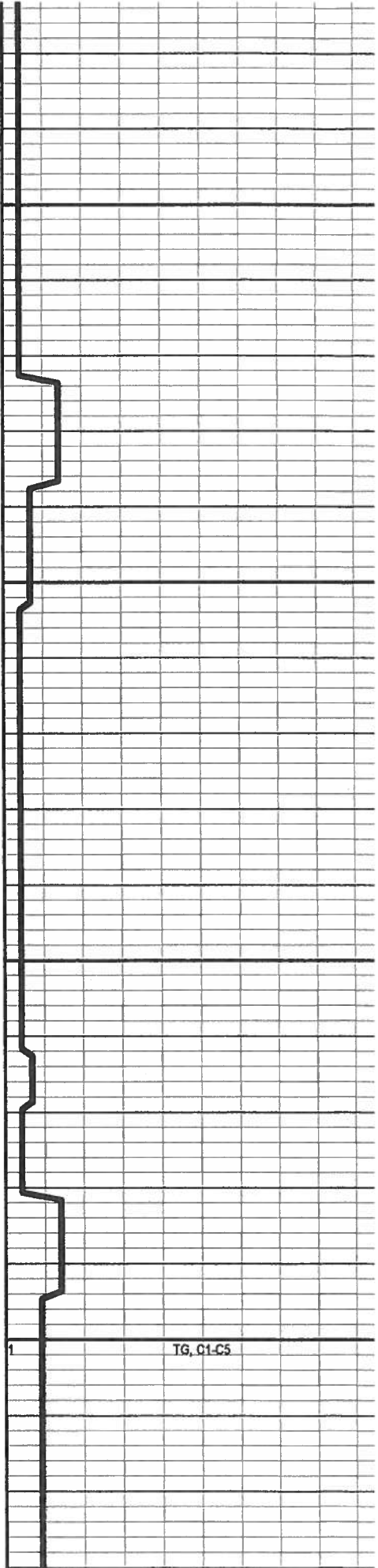
LS: Med to dk mot brn micxln micsuc sbchky cln
 to arg carb foss tt no show

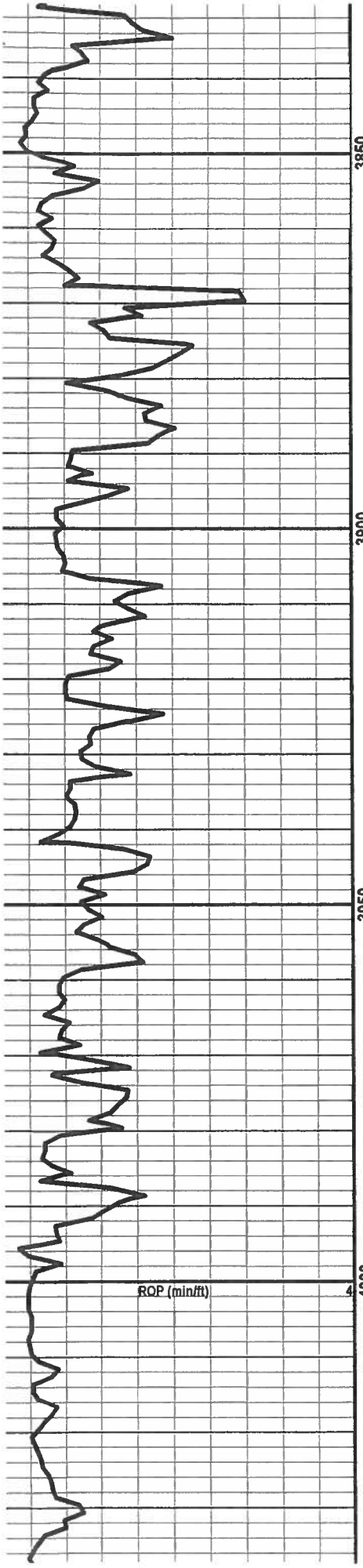
SH: Dk gy blk frm sbfis carb calc ip

LS: Lt brn bf wh med to dk brn micr f xln hd to sft
 & chky ip cln p vis por no show

SH: Dk gy blk frm sbfis carb calc ip

LS: Lt brn bf tan oomier f xln sbchky ip cln v ool
 with moldic por no flor no stn or cut tr CHRT

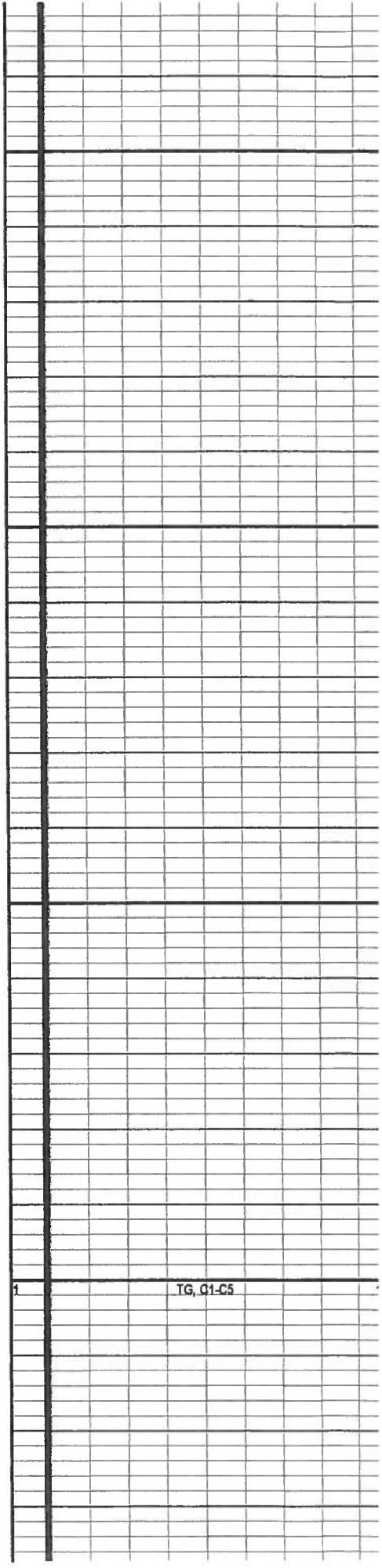




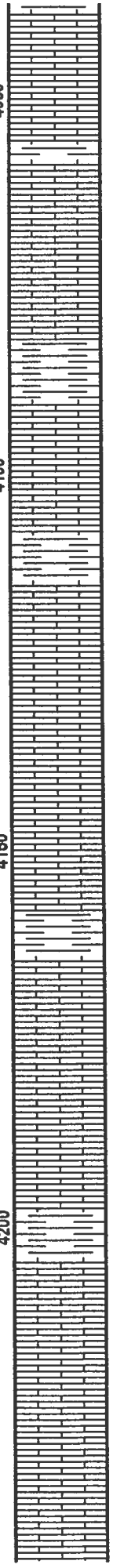
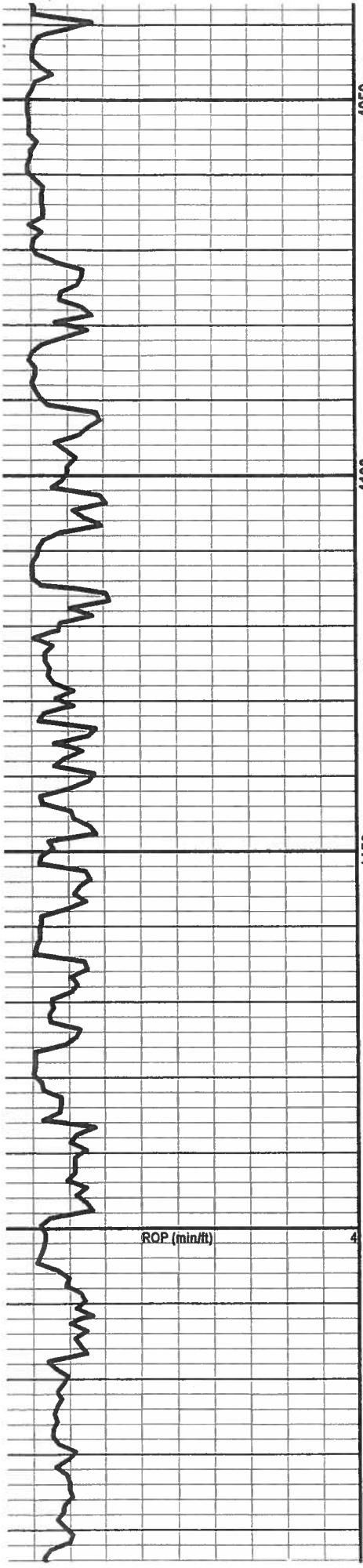
SH: Med to dk mot brn to gy gygn blk calc sndy
 ip occ blk & fis & v carb intbd with LS: Mot brn to
 gy crpxln hd dns mrlly foss tt no show

LS: Lt brn bf wh micxln sbchky to chky ip brit cln
 no show occ intbd with SH: Blk dk gy blk calc

LS: Lt brn wh bf med mot brn to gy biomier f xln
 brit foss ool with occ gd oomoldic & intpart por
 no flor no stn or cut with LS: Wh sft brit to amor
 chky occ intbd with SH: Blk dk bm to gy frm fis
 carb



TG, Q1-C5



LS: Pred aa micxn brit v ool with exc oomoldic por tr intpart & intxn por no flor no stn or cut occ intbd with SH: aa

SH: Dk gy gygn frm biky calc foss & carb ip with LS: Pred aa v chky ip occ gd oomoldic por no show

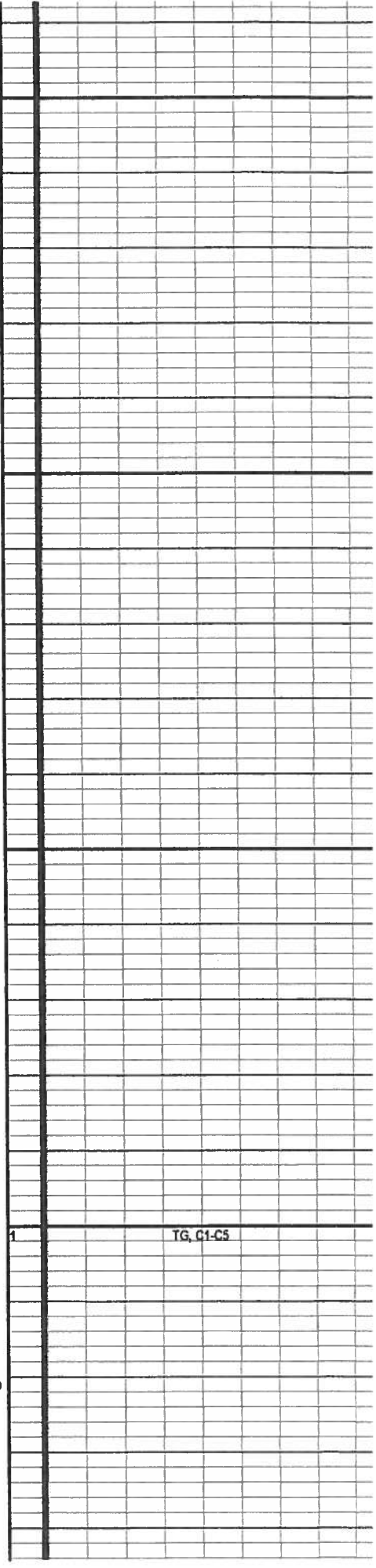
LS: Med to dk brn to gy micr f xln occ sbchky & sft cln oomoldic por no flor no stn or cut intbd with SH: Dk gy gygn frm biky calc foss & carb

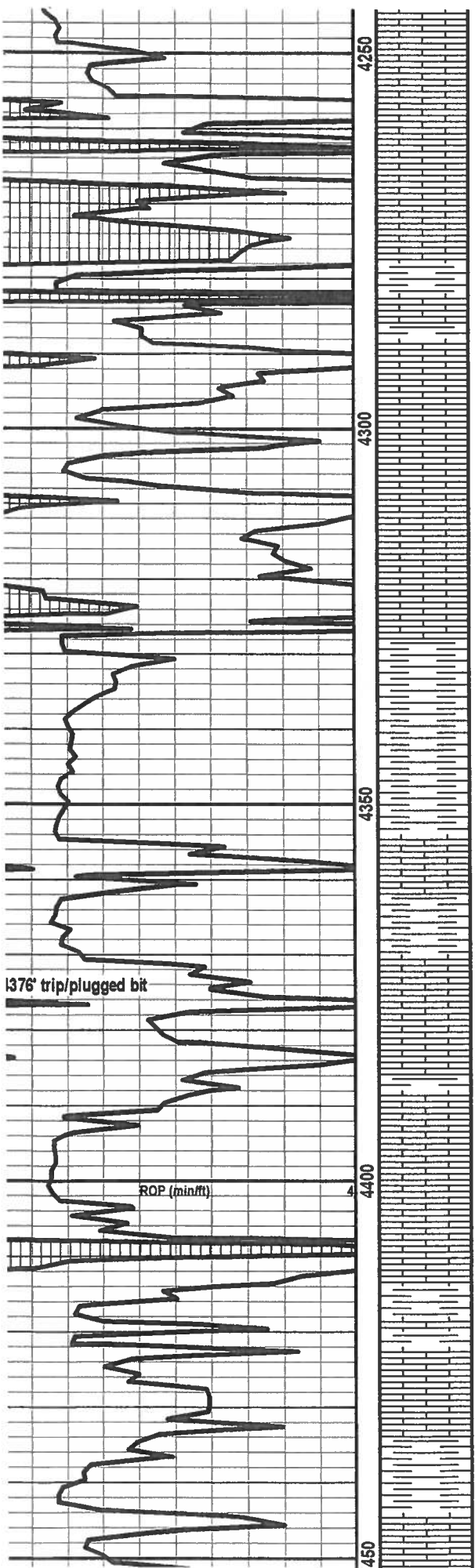
LS: Lt brn oomier micxn v brit cln v ool with exc oomoldic por no flor no stn or cut intbd with SH: Dk gy gygn brn to blk frm biky carb calc

LS: Lt brn oomier micxn v brit cln v ool with exc oomoldic por no flor no stn or cut intbd with SH: Dk gy gygn brn to blk frm biky carb calc

SH: Dk gy gygn brn to blk frm biky carb ip calc

LS: Lt to med mot bm to gy micr micxn micsuc ip brit cln sbchky ip foss & ool with occ moldic por tr intxn por no flor no stn or cut with LS: Lt brn tan crpxn hd dns sil tt





LS: Brn tan wh hd dns crp/micxn dns to tr & moldic por no flor no stn or cut

SH: Blk frm sbfis carb

LS: Brn mot gy biomier micxn micsuc brit cln v foss with ooc moldic por tr intxn por no flor no stn or cut

LS: Brn tan wh crpxln to micxn micsuc ip sbchky no show with LS: Brn to tan crpxln hd dns

SH: Med gy blk calc v snyd ooc grdng to mrlly
SS: TT abt clay infill no show

LS: Lt to med bm bf micxn micsuc ip sbchky cln foss no show with SH: Dk gy gygn brn blk frm to hd calc sity

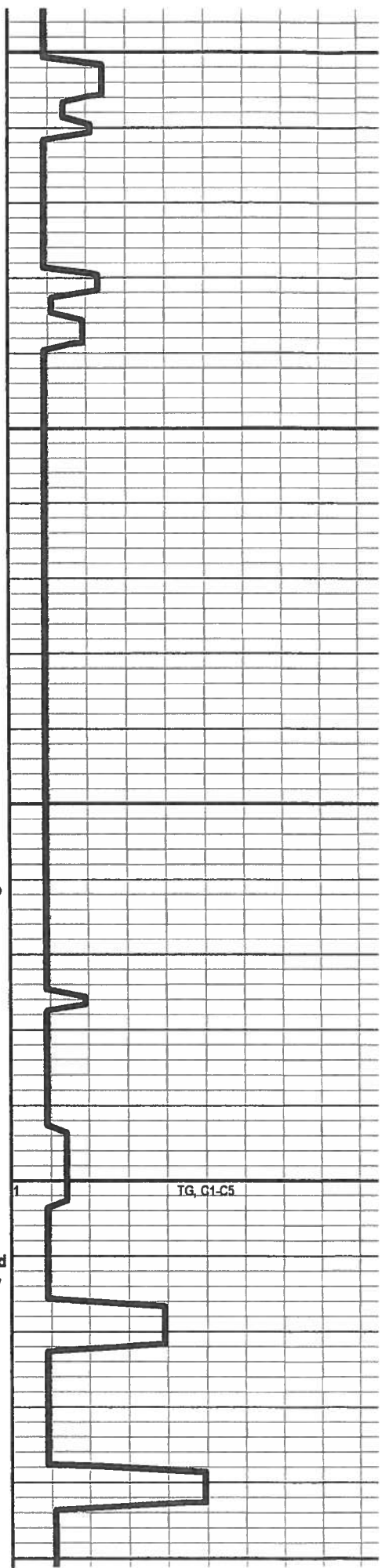
LS: aa crp/micxn cln dns foss tr moldic & intxn por no flor no stn or cut

LS: Lt to med bm oomicr f xln brit cln v ool oomoldic por no flor no stn or cut

LS: Med brn tan crpxln hd dns sil tt no show intbd with SH: Dk to med gy to brn blk frm sbfis to blk calc carb sity ip

SH: Dk brn blk carb sbfis

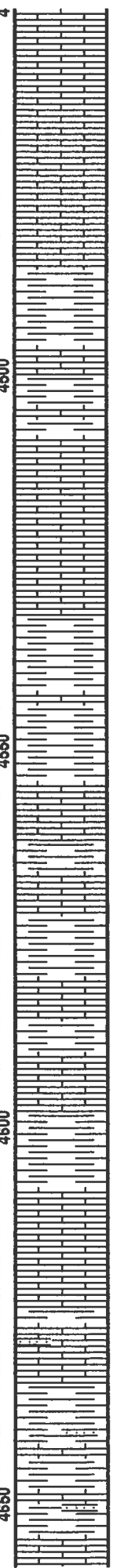
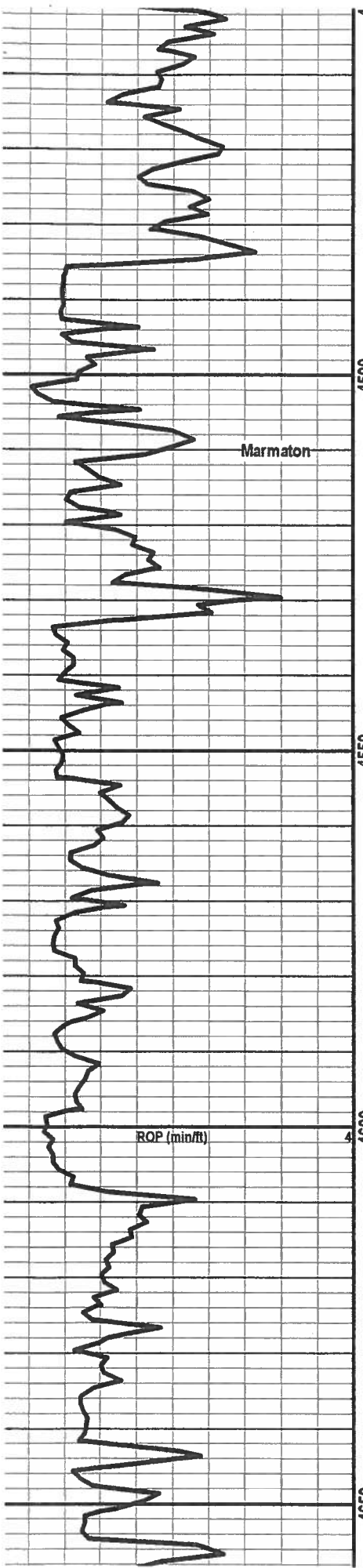
LS: Med mot bm gy gygn hd dns f xln sity carb



1376' trip/plugged bit

ROP (min/ft)

TG, C1-C5



incls p vis por no show

SH: Blk dk bm dk gy frm to hd sbfis to blk carb calc mica slty intbd with LS: aa p vis por no show

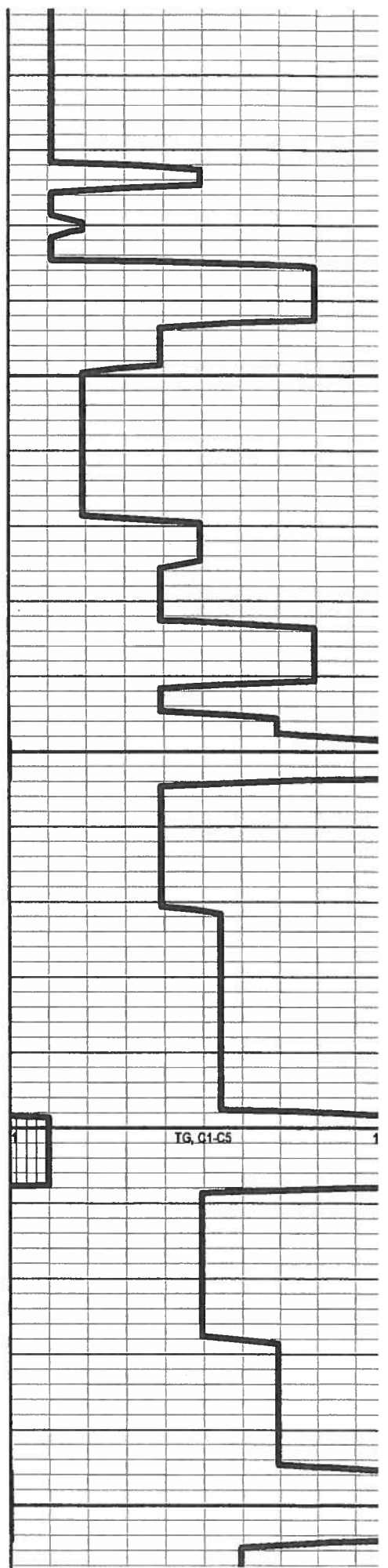
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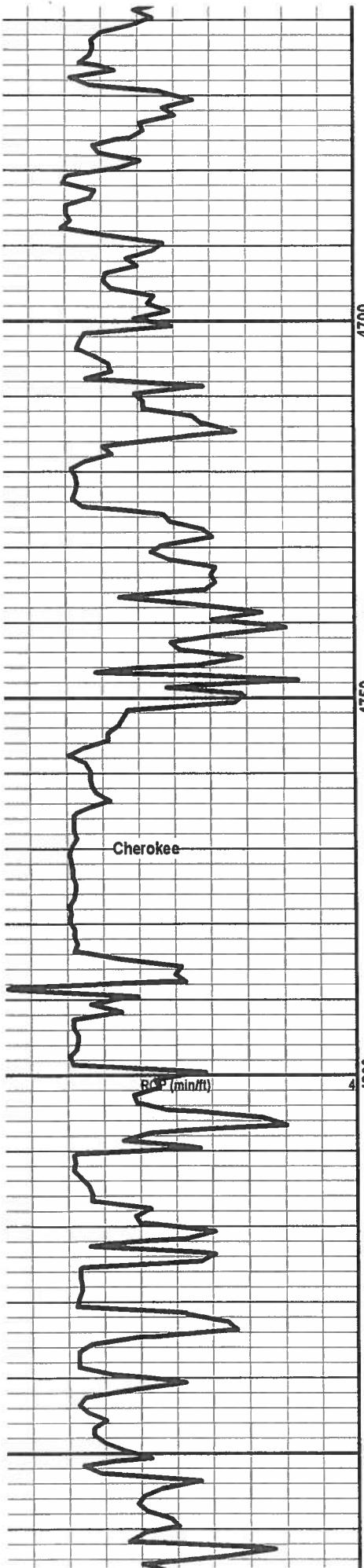
SH: Blk v dk bm dk gy frm sbfis to blk carb calc mica slty

SH: Blk v dk bm dk gy frm sbfis to blk carb calc mica slty LS: Brn bf occ dk mot gy to bm micr f xln hd dns arg to mrlly ip carb tt no show

LS: Lt to med bm to gy blomier f xln micsuc ip brit sbchky cin foss sndy ool tr vis por no show intbd with SH: Blk dk bm gy frm sbfis to fis carb

LS: Lt to med bm to gy biomier f xln micsuc ip





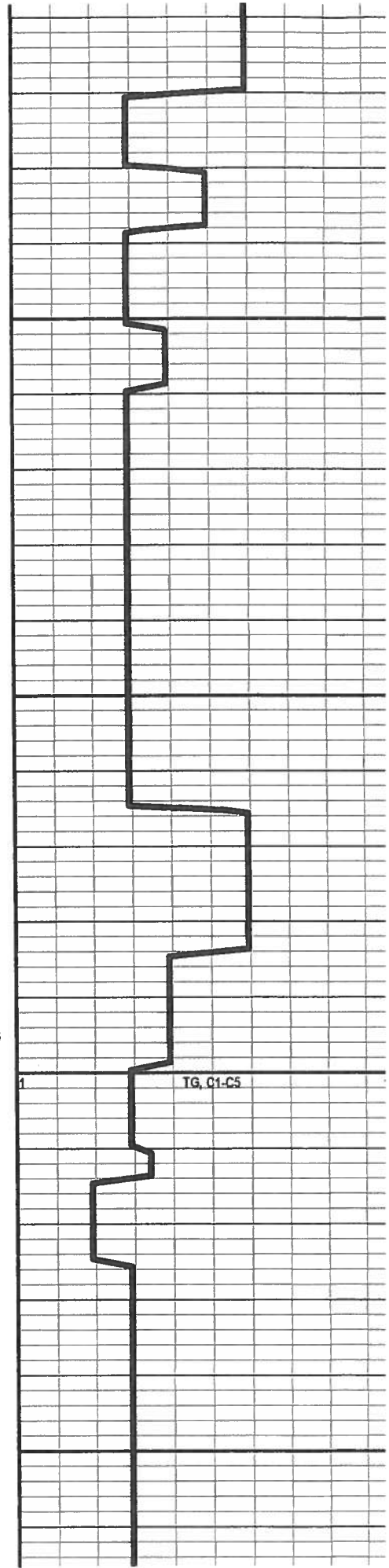
brit sbchky cIn foss sndy ool tr vis por no show
intbd with SH: Blk dk bm gy frm sbfis to fis carb

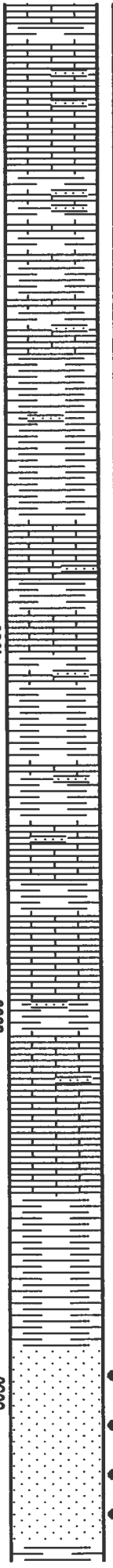
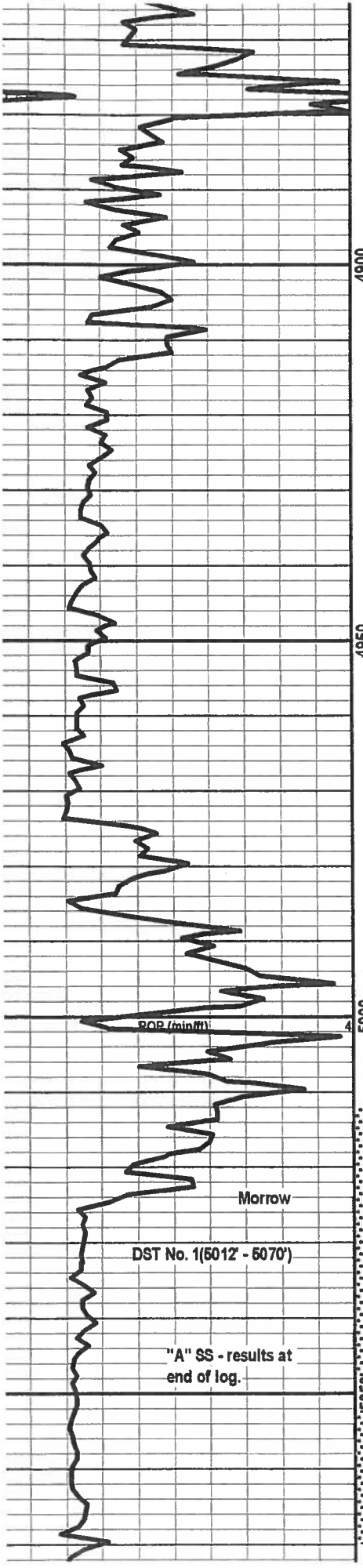
LS: Lt to med bm to gy biomier f xIn micsuc ip
brit sbchky cIn foss sndy ool tr vis por no show
intbd with SH: Blk dk bm gy frm sbfis to fis carb

SH: Dk brn to gy blk hd sbfis to blk carb calc
mica

LS: Lt to med mot bm gy micr micxIn micsuc
sbchky cIn v sndy sl glauc mica carb incl tr por
no flor no show intbd with SH: Dk mot bm gy
gygn blk with LS: Mot brn f xIn hd dns sndy foss
tt no show

LS: Lt to med bm to gy biomier f xIn micsuc ip
brit sbchky cIn foss sndy ool tr vis por no show
occ intbd with SH: Blk dk bm gy frm sbfis to fis
carb





LS: Med to dk mot brn gy occ blk micr f xln hd dns foss arg to mrlly tt no show intbd with SH: Blk dk gy sbfis carb

SH: Blk v dk bm gy blkly to sbfis catb calc slty

LS: Lt to med brn to gy biomier f xln micsuc ip brit sbchky cln foss sndy ool tr vis por no show intbd with SH: Blk dk bm gy frm sbfis to fis carb

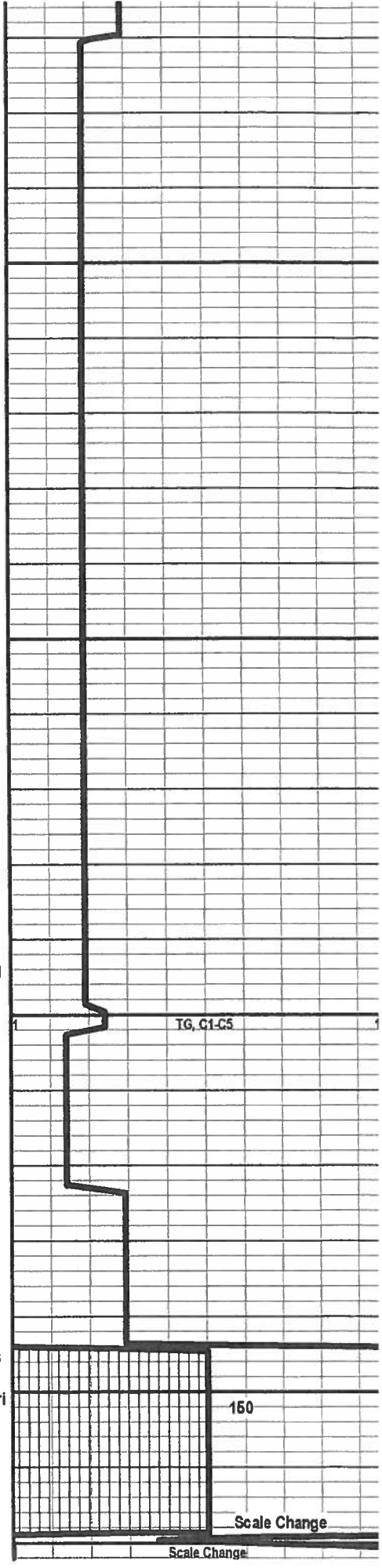
SH: Blk v dk bm gy blkly to sbfis catb calc slty

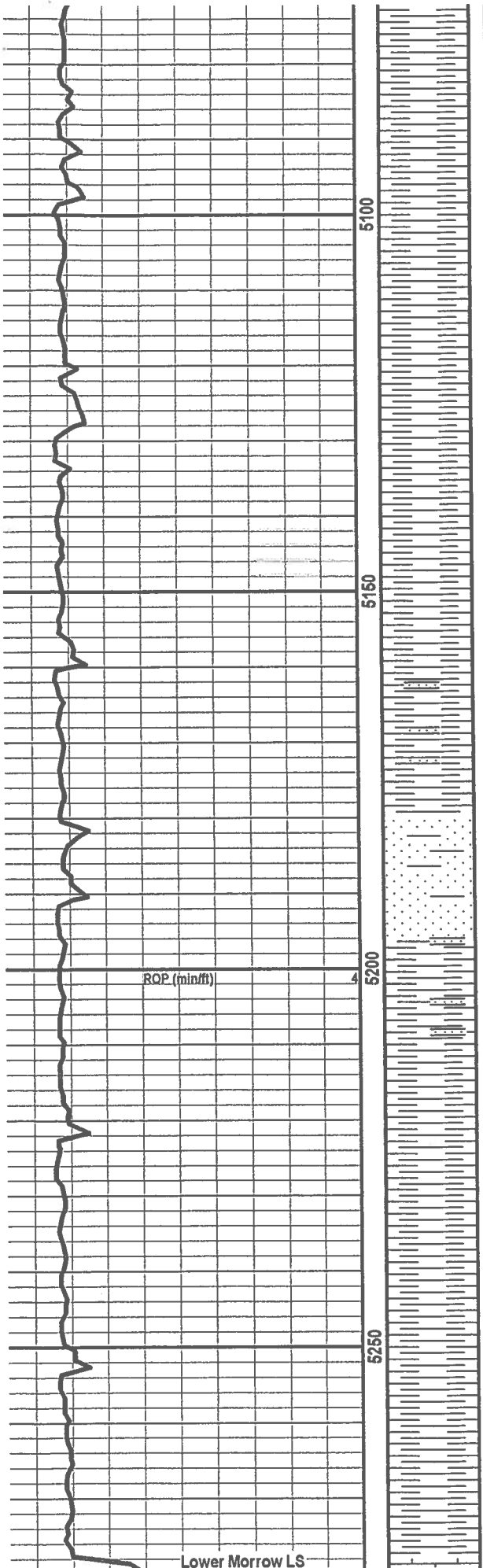
LS: Med to dk brn gy occ blk micr f xln hd dns arg to mrlly ip carb foss sndy tt no show with SH: aa

SH: Blk frm sbfis wxy to slty mica carb

Abt Unconsl Grs(12% spl): Wh clr tmsl vcu/ml p srted sbang grs pale lt yel to bl hydc flor on grains & slow strmg cut poorly consl ipwith sil cmt congl ip v fri exc intgran por occ tt & well cmted bri bl/yel hydc flor(all SS) gd strmg cut tr tt brn live oil & mot o stn sl o odor exc show

SH: Blk frm sbfis wxy to slty mica carb





ROP (min/ft)

Lower Morrow LS

5100
5150
5200
5250

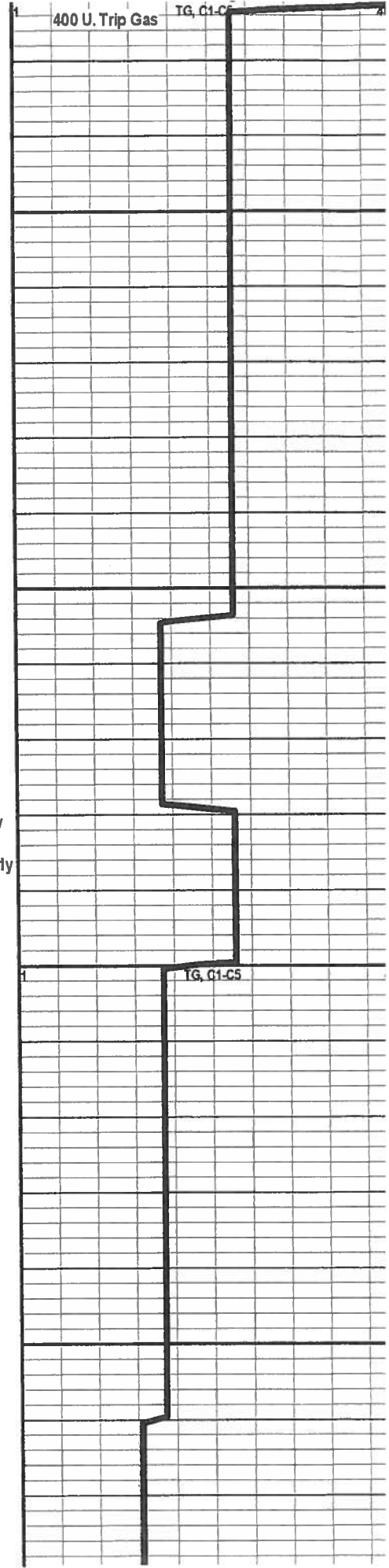
SH: Dk gy blk fis to hd blk sbfis carb mica calc wxy to slty ip

SH: Dk gy blk fis to hd blk sbfis carb mica calc wxy to slty ip

SLTST/VF SS: S&P Lt spec bm to gy hds l fri vf w srt d sbrnd grs sil omt cln to arg calc mica carb incl p vis por no flor no stn or cut occ arg to mfy with clay infill

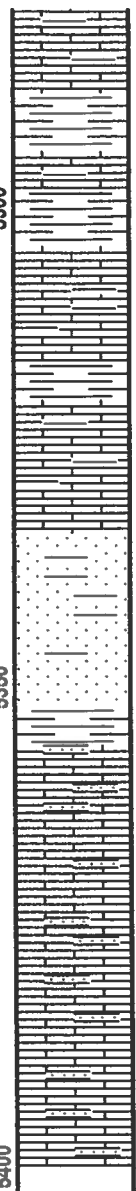
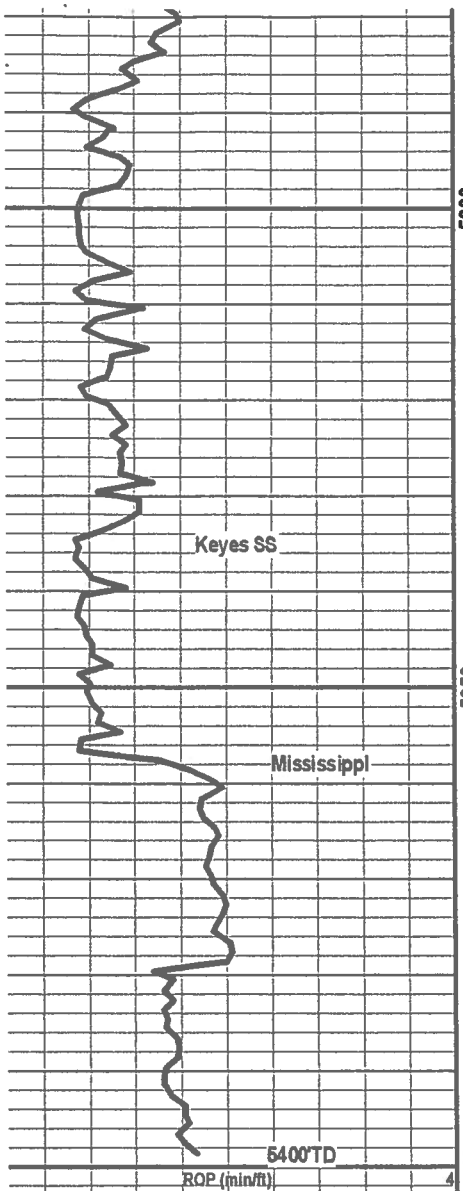
SH: Dk gy blk fis to hd blk sbfis carb mica calc wxy to slty ip v sndy ip

SH: Dk gy blk fis to hd blk sbfis carb mica calc wxy to slty ip



400 U. Trip Gas TG, C1-C5

TG, C1-C5

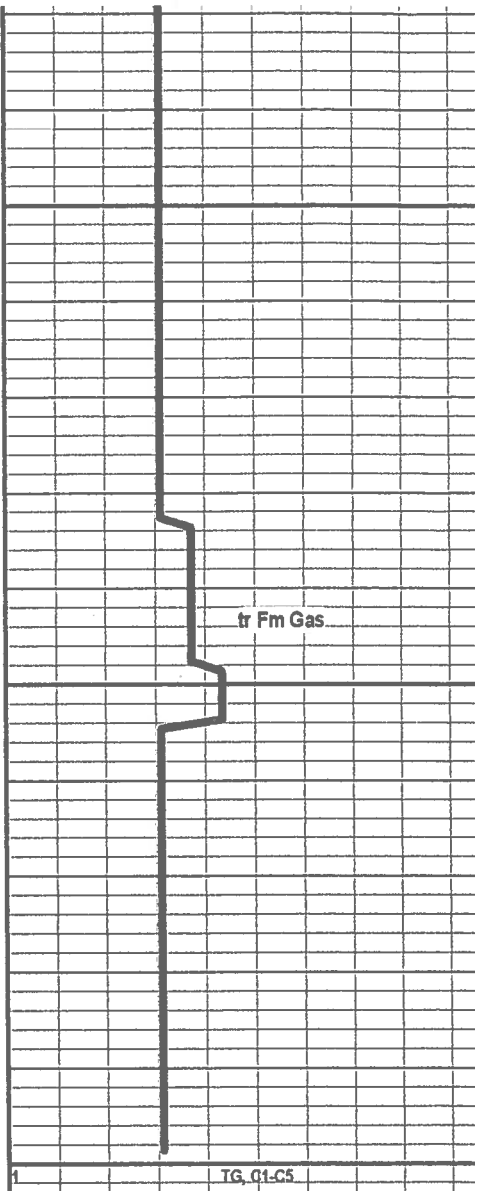


LS: S&P spec brn to gy crpxln hd dns v sndy & glauc mica carb pyr ip p vis por no flor no strn or cut intbd with SH: Dk brn to gy blk v fis & carb ip oce sndy pyr

LS: S&P spec brn to gy crpxln hd dns v sndy & glauc mica carb pyr ip p vis por no flor no strn or cut intbd with SH: Dk brn to gy blk v fis & carb ip oce sndy pyr

SS; Med to dk mot brn to gn s&p hd dns fu w srtl sbang grs sil cmt arg to mrlly ip calc glauc pyr mica p vis por v sil & clay infill no show intbd with SH: aa

LS: Lt brn bf mixln miesuc to suc brit cln v sndy fos pyr oce intxln por no flor no strn or cut



DST No. 1(5012'-5070'), Morrow "A" SS
 Times: 30-60-60-120
 Blows: IF-BOB in 8 min., FF: BOB in 2 min., ISI & FSI: Bled off & BOB blowback.
 IH: 2576
 IF: 70 - 236
 ISI: 561
 FF: 245 - 337
 FSI: 558
 FH n 2512
 Recovery: 1196' GIP, 90' mud, 276' MCGM(30% G, 10% O), 275' OCGM(50% G, 10% O), 180' OCMG(50% G, 10% O), SPL Chanber - 150 ML G, 30 ML O, 120 ML M)

Log Tops
 Heebner 3788' -179'
 Lansing 3820' -211'
 Marmaton 4514' -905'
 Cherokee 4770' -1161'
 Morrow 5026' -1417'
 Morrow "A" SS 5044'-5069' -1435'
 "C" SS 5184' -1575'
 L. Morrow LS 5080' -1471'
 Keyes 5349' -1740'
 Mississippini 5350' -1740'

Date	depth	wt	vis	pv	yp	ph	wl	cl	lcm	1/19
825'		9.8	40	10	13	7.0	nc	200	4	
1/11	1675'	9.3	36	6	10	7.0	nc	62K	2	
1/12	2715'	9.4	32			7.0	nc	34K	2	
1/13	3838'	8.8	50	16	18	10.5	7.2	2.3K	3	
1/14	4376'	9.3	53	17	20	10.0	8.8	2.5K	3	
1/15	5070'	9.2	46	15	17	10.5	8.8	2.3K	6	
1/16	5369'	9.4	50	16	19	9.5	9.6	3.2K	8	

Dev. Surveys(deg.): 251' 1.1, 589' 1.3, 845' 1.9, 1256' 2.4, 1510' 2, 1827' 1, 2172' .6, 2455' .9, 2831' .6, 3334' 1, 3837' .2, 4376' .1, 4881' .2, 5070' .9, 5400' 1.6

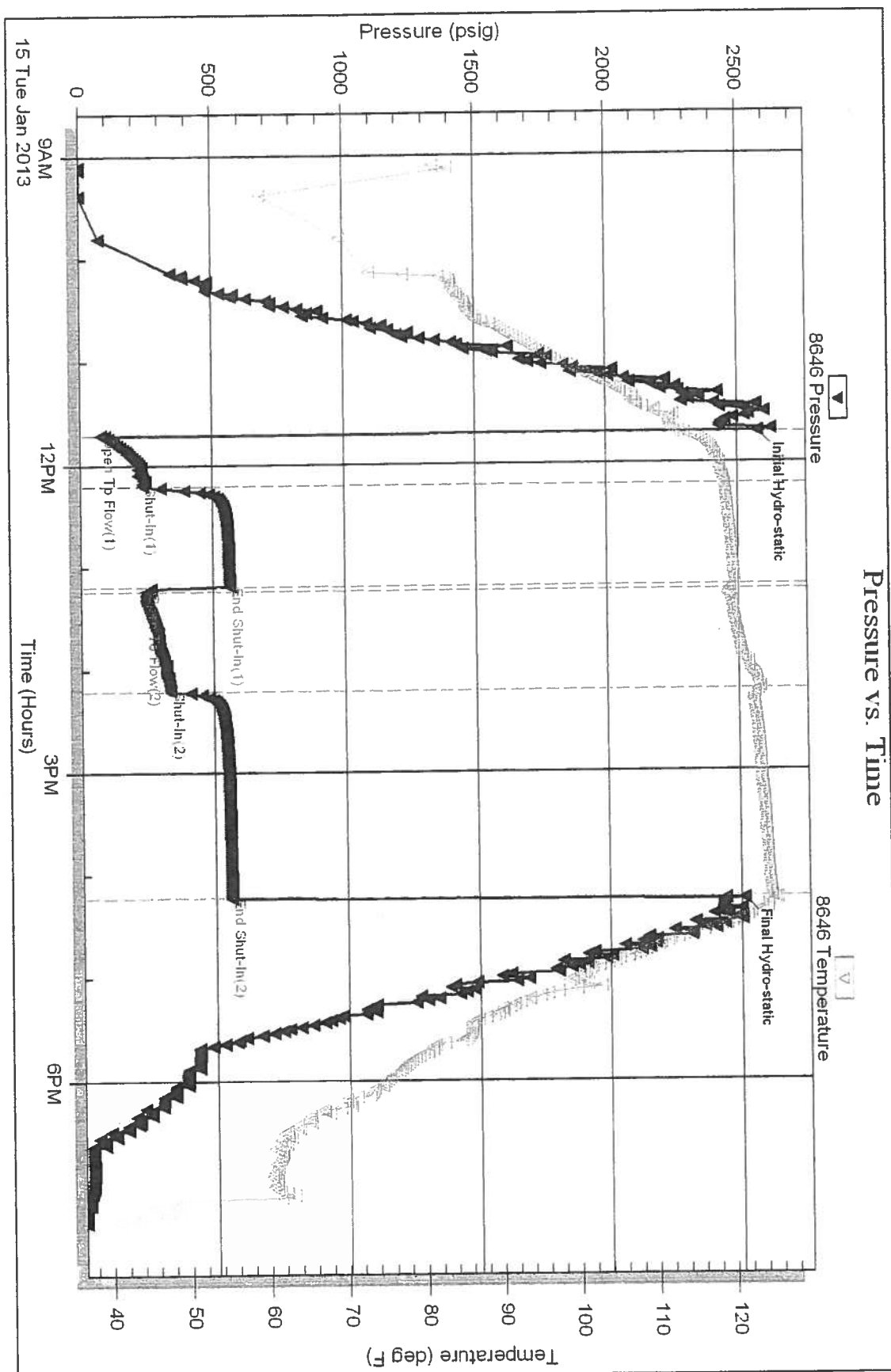
Serial #: 8646

Western Operating Company

Fox 1-8

DST Test Number: 1

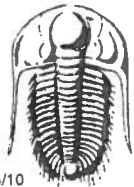
Pressure vs. Time



Triobite Testing, Inc

Ref. No: 49026

Printed: 2013.01.15 @ 20:37:43



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 49026

Well Name & No. Fox #1-8 Test No. 1 Date 1-15-03
 Company Western Operating Company Elevation 3606 KB 3596 GL
 Address 518 17th Street Suite 200 Denver Co 80202
 Co. Rep / Geo. Prote Dehannan Rig Murfin 25
 Location: Sec. B- Twp. 25 Rge. 42 Co. Hamilton State KS

Interval Tested 5012-5070 Zone Tested Marrow "A" Sand
 Anchor Length 58' Drill Pipe Run 4449 Mud Wt. 9.2
 Top Packer Depth 5008 Drill Collars Run 546 Vis 46
 Bottom Packer Depth 5012 Wt. Pipe Run Ø WL 8.8
 Total Depth 5070 Chlorides 2300 ppm System LCM 5

Blow Description IF: BOB in 8 Min
IS: Built to 8" Blow - Bled off for 10 Min
FF: BOB in 2 Min
FS: BOB in 2 Min - Bled off for 10 Min -

Rec	Feet of	%gas	%oil	%water	%mud
<u>90</u>	<u>mud</u>			<u>100</u>	
<u>276</u>	<u>mlog</u>	<u>70</u>	<u>20</u>	<u>10</u>	
<u>275</u>	<u>ocgm</u>	<u>30</u>	<u>10</u>	<u>60</u>	
<u>180</u>	<u>ocgm</u>	<u>50</u>	<u>10</u>	<u>40</u>	
<u>Ø</u>	<u>GAP = 11910</u>	<u>100</u>			

Rec Total 821 BHT 125 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>2576</u>	<input checked="" type="checkbox"/> Test <u>1250.⁰⁰</u>	T-On Location <u>08:00</u>
(B) First Initial Flow <u>79</u>	<input checked="" type="checkbox"/> Jars <u>250.⁰⁰</u>	T-Started <u>09:06?</u>
(C) First Final Flow <u>236</u>	<input checked="" type="checkbox"/> Safety Joint <u>75.⁰⁰</u>	T-Open <u>11:32</u>
(D) Initial Shut-In <u>561</u>	<input checked="" type="checkbox"/> Circ Sub <u>NC</u>	T-Pulled <u>16:02</u>
(E) Second Initial Flow <u>245</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>19:22</u>
(F) Second Final Flow <u>337</u>	<input checked="" type="checkbox"/> Mileage <u>200RT 310.⁰⁰</u>	Comments
(G) Final Shut-In <u>558</u>	<input checked="" type="checkbox"/> Sampler <u>250.⁰⁰</u>	
(H) Final Hydrostatic <u>2512</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
	<input type="checkbox"/> Extra Recorder	Sub Total
	<input type="checkbox"/> Day Standby	Total
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>\$2445.⁰⁰</u>	

Initial Open 30
 Initial Shut-In 60
 Final Flow 60
 Final Shut-In 120

Approved By [Signature] Our Representative [Signature]



TRILOBITE TESTING, INC.

P.O. Box 362 • Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 49026 Date 1-15-13
 Company Name Western Operating Company
 Lease Fox 1-8 Test No. 1
 County Hamilton Sec. 8 Twp. 25 Rng. 42

SAMPLER RECOVERY

Gas 150 ML
 Oil 30 ML
 Mud 120 ML
 Water 0 ML
 Other _____ ML
 Pressure 18 cubic feet gas
 Total 300 ML

PIT MUD ANALYSIS

Chlorides 2300 ppm.
 Resistivity 0 ohms @ _____ F
 Viscosity 46
 Mud Weight 9.2
 Filtrate 8.8
 Other 5
 _____ ML

SAMPLER ANALYSIS

Resistivity _____ ohms @ _____ F
 Chlorides _____ ppm.
 Gravity _____ corrected @60F

PIPE RECOVERY

TOP
 Resistivity _____ ohms @ _____ F
 Chlorides _____ ppm.
MIDDLE
 Resistivity _____ ohms @ _____ F
 Chlorides _____ ppm.
BOTTOM
 Resistivity _____ ohms @ _____ F
 Chlorides _____ ppm.

Morrow

112°
VA'S

5050

113°

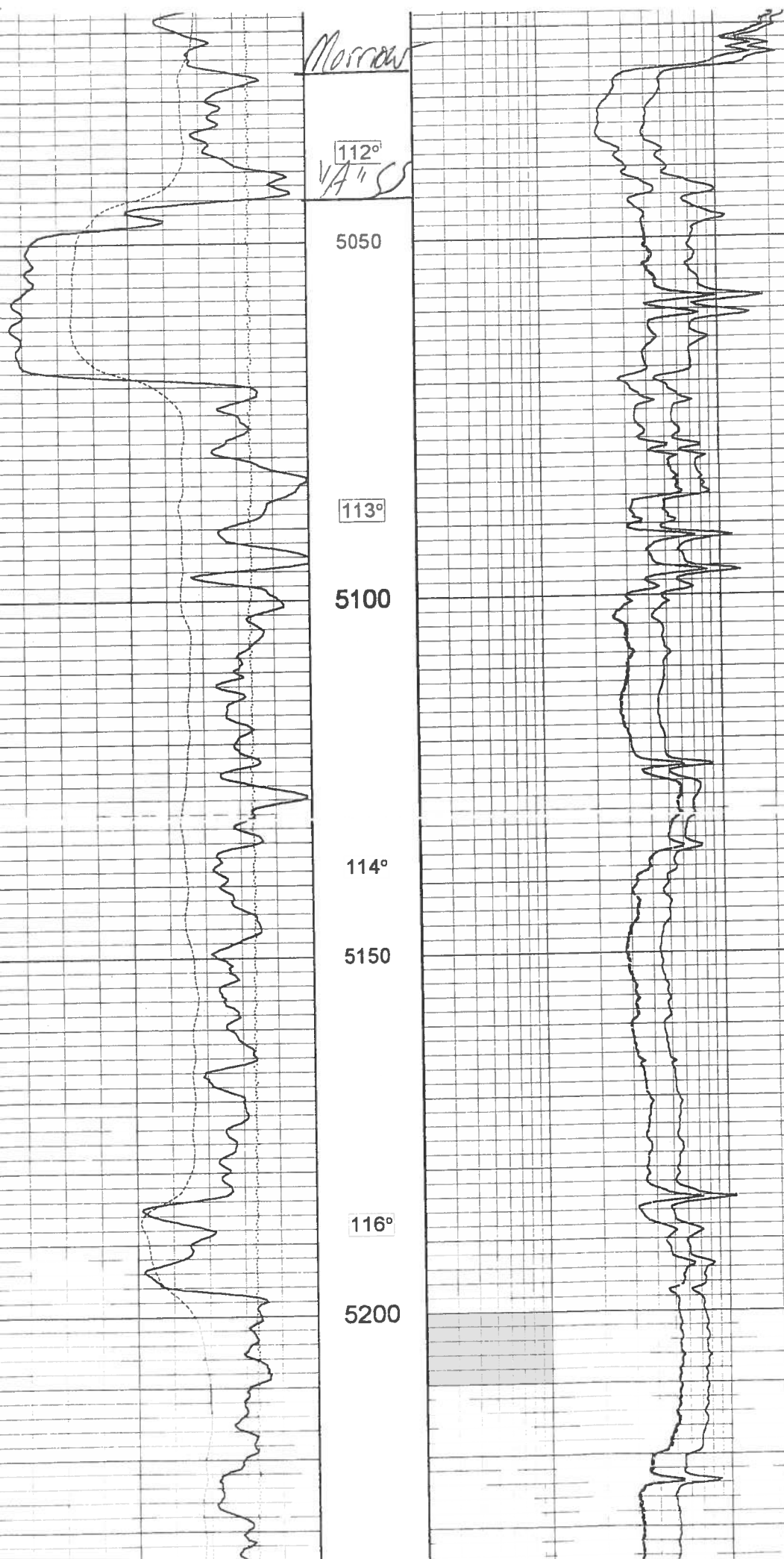
5100

114°

5150

116°

5200



5000 0

Scale
1:240

5000

Morrows

110°

"A" SS

5050

111°

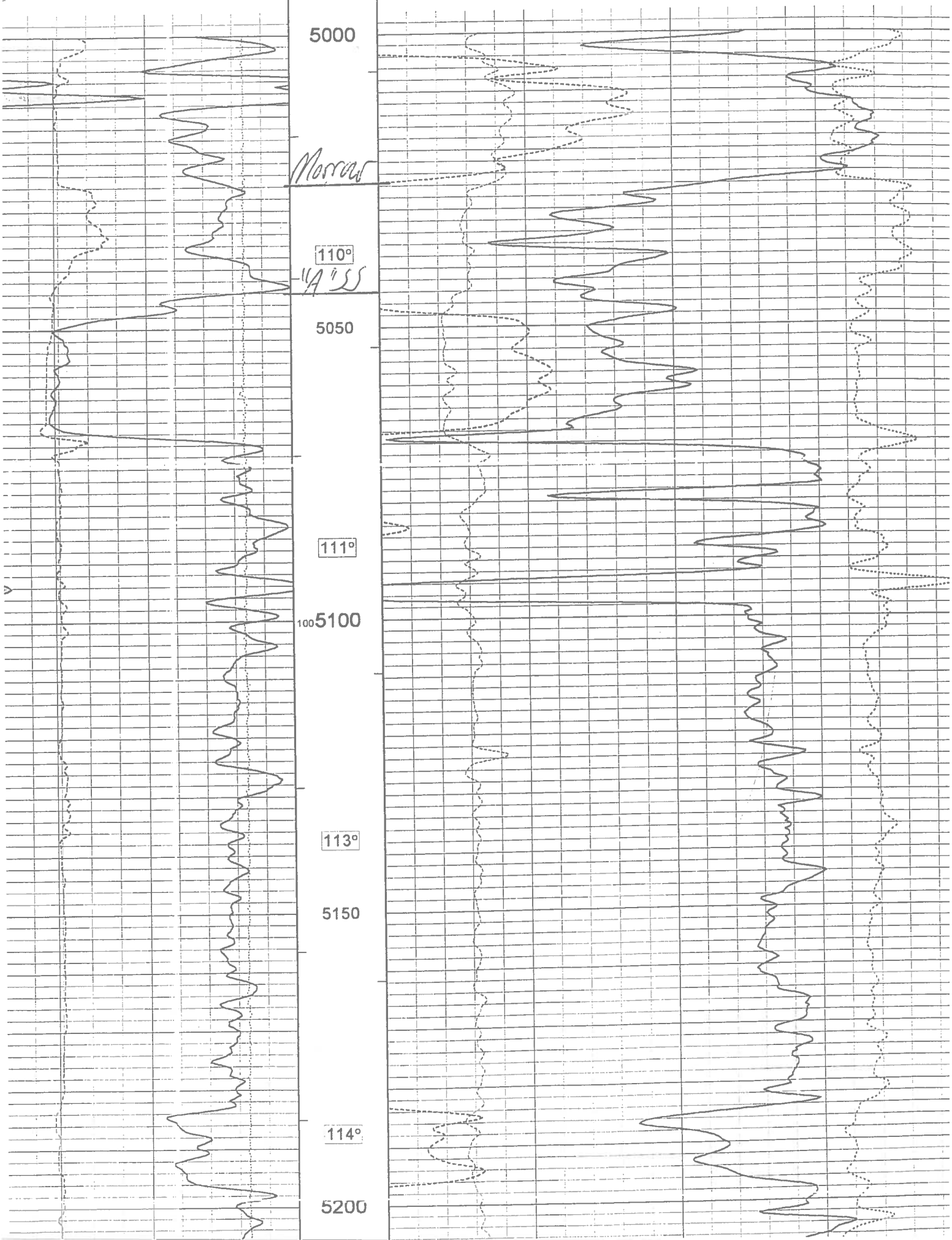
100 5100

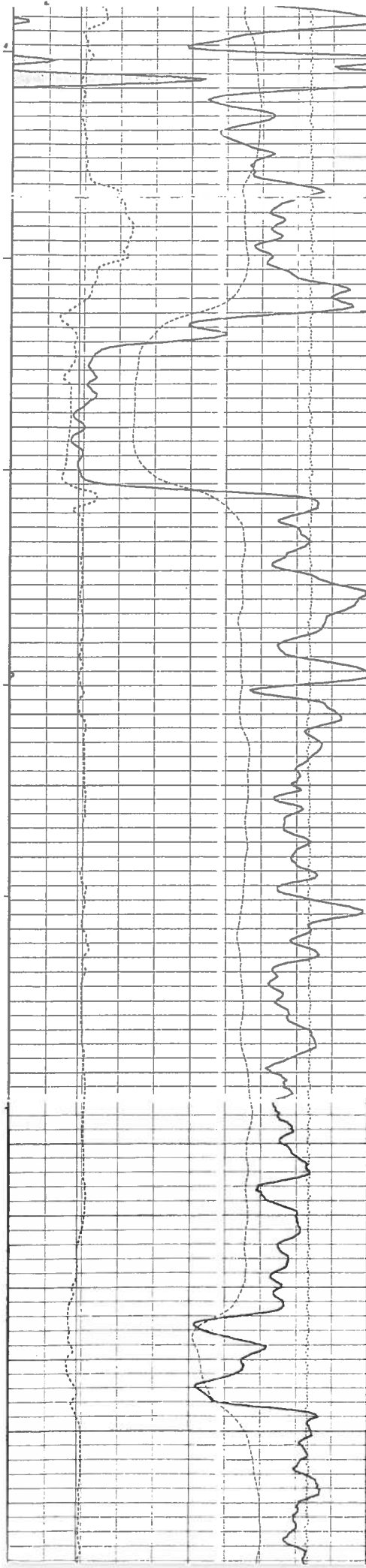
113°

5150

114°

5200





Morocco

112°

17°55'

5050

113°

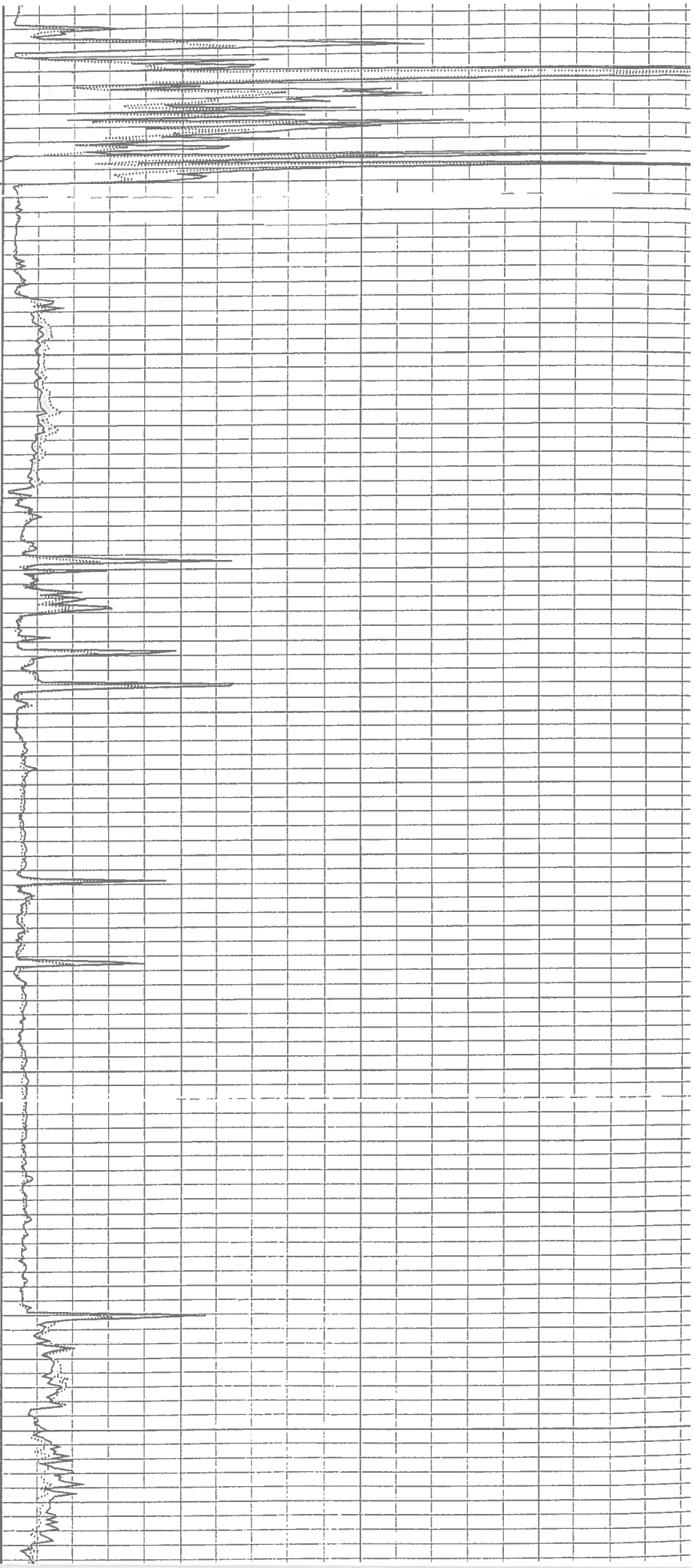
5100

114°

5150

116°

5200



Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



Phone: 316-337-6200
Fax: 316-337-6211
<http://kcc.ks.gov/>

Mark Sievers, Chairman
Thomas E. Wright, Commissioner
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

April 05, 2013

Steven D. James
Western Operating Company
518 17TH ST STE 200
DENVER, CO 80202-4117

Re: ACO1
API 15-075-20866-00-00
FOX 1-8
NW/4 Sec.08-25S-42W
Hamilton County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
Steven D. James