

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

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

Gas DH EOR

OG GSW

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 EOR Conv. to SWD
 Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

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 Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

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 Geologist Report / Mud Logs <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				

1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
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)*

Date of first Production/Injection or Resumed Production/Injection:	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> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Pickrell Drilling Co

24-28S-6W Kingman

100 S Main Ste 505
Wichita, KS 67202

Thissen D 1

Job Ticket: 63976

DST#: 1

ATTN: Aaron Young

Test Start: 2018.06.12 @ 20:32:25

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:09:27

Time Test Ended: 04:36:27

Test Type: Conventional Bottom Hole (Initial)

Tester: Leal Cason

Unit No: 74

Interval: 3880.00 ft (KB) To 3910.00 ft (KB) (TVD)

Reference Elevations: 1444.00 ft (KB)

Total Depth: 3910.00 ft (KB) (TVD)

1437.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 7.00 ft

Serial #: 8875

Inside

Press@RunDepth: 71.12 psig @ 3881.00 ft (KB)

Capacity: psig

Start Date: 2018.06.12

End Date:

2018.06.13

Last Calib.:

2018.06.13

Start Time: 20:32:26

End Time:

04:36:27

Time On Btm:

2018.06.12 @ 22:08:27

Time Off Btm:

2018.06.13 @ 02:12:27

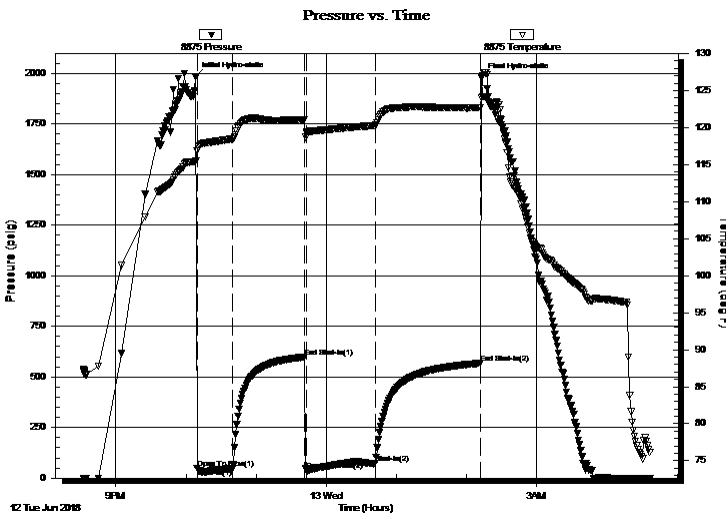
TEST COMMENT: IF: Strong Blow , BOB in 30 seconds, Built to 325 inches

IS: No Blow Back

FF: Strong Blow , BOB immediate, GTS in 3 minutes, Gauged & Caught Sample

FS: No Blow Back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1984.88	115.50	Initial Hydro-static
1	48.83	116.88	Open To Flow (1)
32	47.69	118.48	Shut-In(1)
94	598.17	121.07	End Shut-In(1)
95	38.96	119.29	Open To Flow (2)
154	71.12	120.30	Shut-In(2)
244	567.90	122.69	End Shut-In(2)
244	1978.99	124.09	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	GTS	0.00
95.00	SGCM 5%G 95%M	1.33

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	24.00	14.37
Last Gas Rate	0.25	25.00	62.50
Max. Gas Rate	0.13	31.00	16.99



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Pickrell Drilling Co

24-28S-6W Kingman

100 S Main Ste 505
Wichita, KS 67202

Thissen D 1

Job Ticket: 63976

DST#: 1

ATTN: Aaron Young

Test Start: 2018.06.12 @ 20:32:25

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 8000.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	GTS	0.000
95.00	SGCM 5%G 95%M	1.333

Total Length: 95.00 ft Total Volume: 1.333 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

Pickrell Drilling Co

24-28S-6W Kingman

100 S Main Ste 505
Wichita, KS 67202

Thissen D 1

Job Ticket: 63976

DST#: 1

ATTN: Aaron Young

Test Start: 2018.06.12 @ 20:32:25

Gas Rates Information

Temperature: 59 (deg F)
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
2	20	0.13	24.00	14.37
2	20	0.13	24.00	14.37
2	30	0.13	27.00	15.50
2	40	0.13	31.00	16.99
2	50	0.25	25.00	62.50

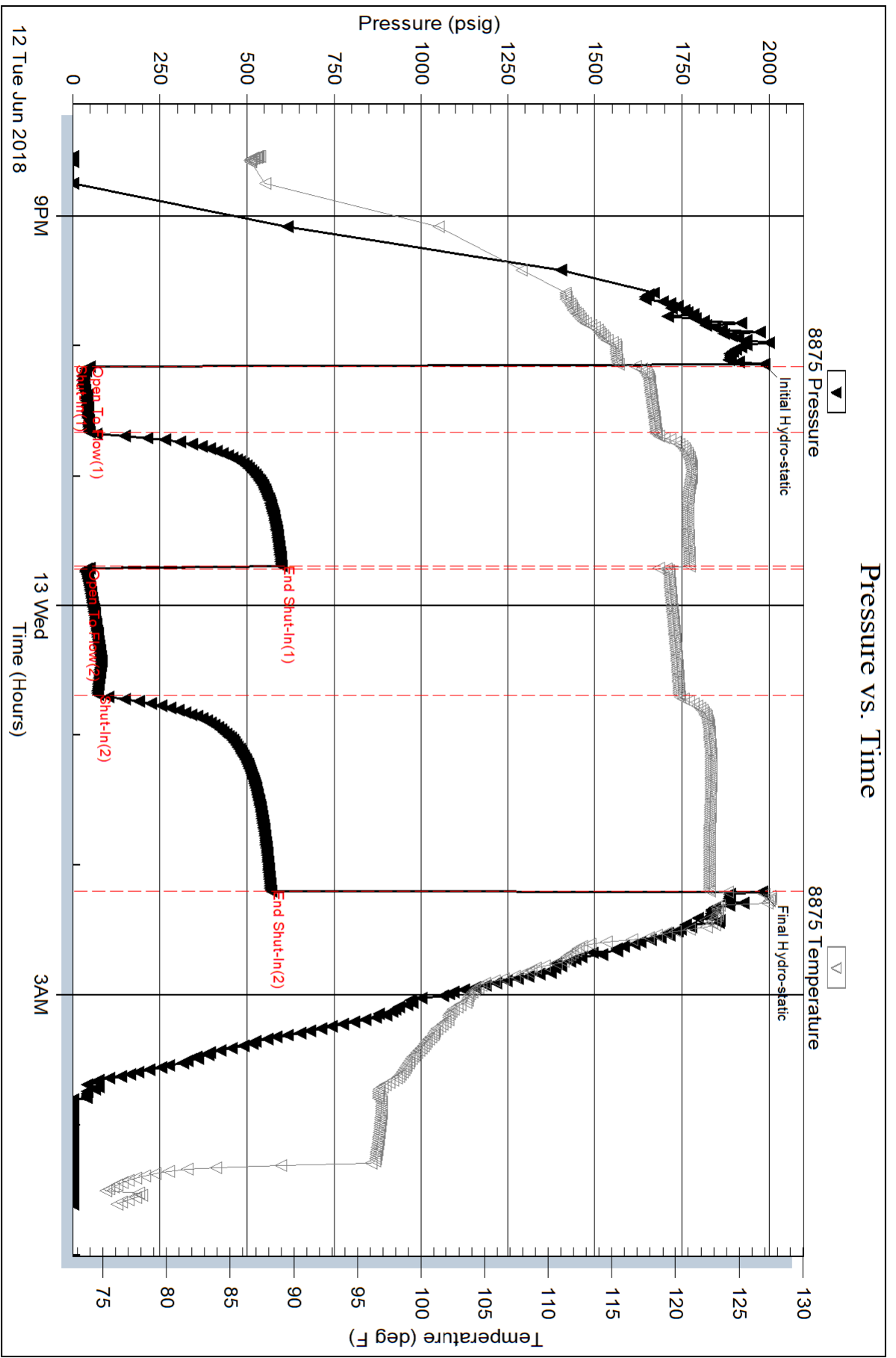
Serial #: 8875

Inside

Pickrell Drilling Co

Thissen D 1

DST Test Number: 1

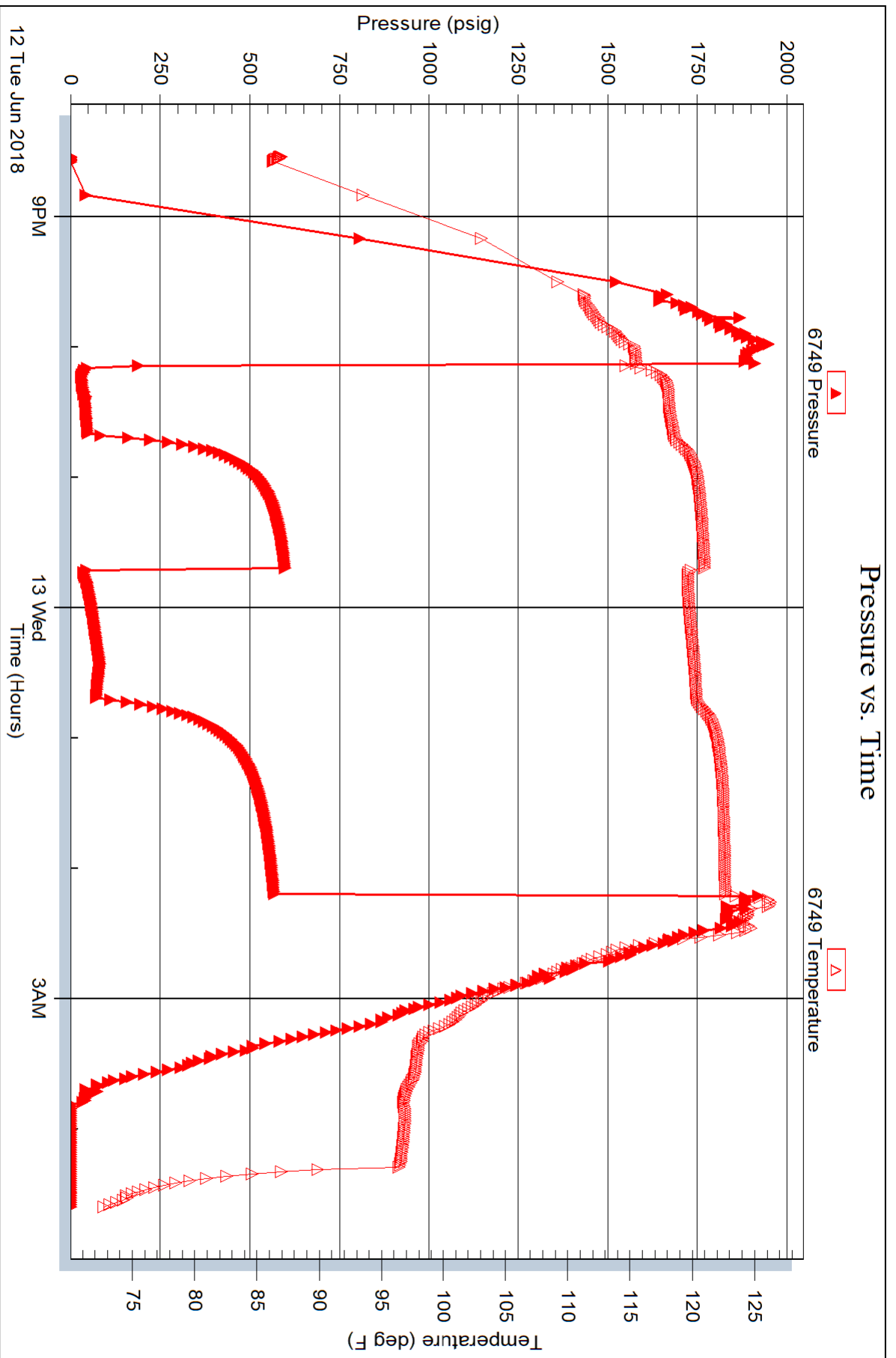


Serial #: 6749

Outside Pckrell Drilling Co

Thissen D 1

DST Test Number: 1





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Pickrell Drilling Co

24-28S-6W Kingman

100 S Main Ste 505
Wichita, KS 67202

Thissen D 1

Job Ticket: 63977

DST#: 2

ATTN: Aaron Young

Test Start: 2018.06.13 @ 12:28:56

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:59:43

Time Test Ended: 19:54:58

Test Type: Conventional Bottom Hole (Reset)

Tester: Leal Cason

Unit No: 74

Interval: 3910.00 ft (KB) To 3934.00 ft (KB) (TVD)

Reference Elevations: 1444.00 ft (KB)

Total Depth: 3934.00 ft (KB) (TVD)

1437.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 7.00 ft

Serial #: 8875

Inside

Press@RunDepth: 153.92 psig @ 3911.00 ft (KB)

Capacity: psig

Start Date: 2018.06.13

End Date: 2018.06.13

Last Calib.: 2018.06.13

Start Time: 12:28:57

End Time: 19:54:58

Time On Btm: 2018.06.13 @ 13:57:58

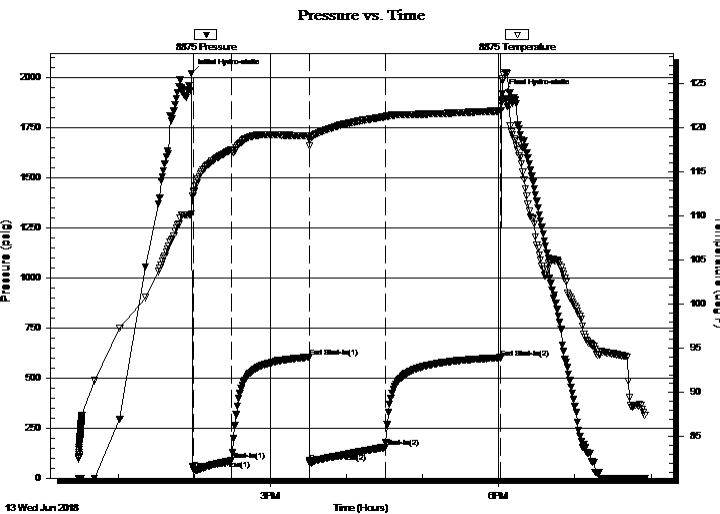
Time Off Btm: 2018.06.13 @ 18:02:43

TEST COMMENT: IF: Strong Blow , BOB in 30 seconds, Built to 315 inches

IS: No Blow Back

FF: Strong Blow , BOB Immediate, Built to 343 inches, GTS in 22 minutes, Caught Sample, TSTM

FS: No Blow Back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2022.31	110.25	Initial Hydro-static
2	41.90	112.67	Open To Flow (1)
32	88.91	117.49	Shut-In(1)
93	603.99	119.03	End Shut-In(1)
94	80.13	118.58	Open To Flow (2)
153	153.92	121.24	Shut-In(2)
244	602.09	121.94	End Shut-In(2)
245	1919.83	125.26	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	3624 GIP	0.00
186.00	Water	2.05
62.00	OMCW 5%O 10%M 85%W	0.87
40.00	GOMCW 5%G 10%O 30%M 55%W	0.56

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Pickrell Drilling Co

24-28S-6W Kingman

100 S Main Ste 505
Wichita, KS 67202

Thissen D 1

Job Ticket: 63977

DST#: 2

ATTN: Aaron Young

Test Start: 2018.06.13 @ 12:28:56

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:

89000 ppm

Viscosity: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 8000.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
0.00	3624 GIP	0.000
186.00	Water	2.053
62.00	OMCW 5%O 10%M 85%W	0.870
40.00	GOMCW 5%G 10%O 30%M 55%W	0.561

Total Length: 288.00 ft Total Volume: 3.484 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Rw was .65 @ 95 degrees

Serial #: 8875

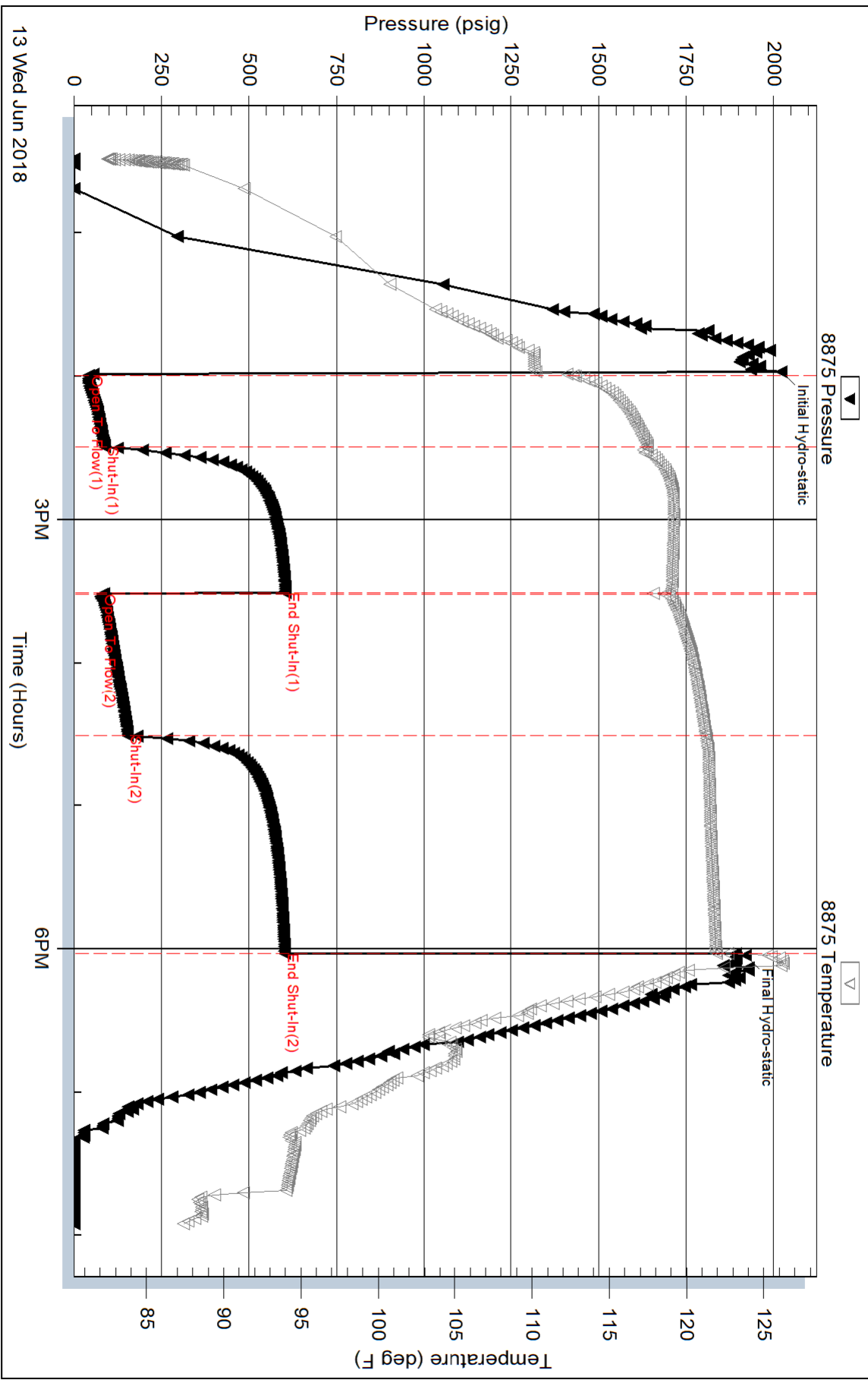
Inside

Pickrell Drilling Co

Thissen D 1

DST Test Number: 2

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 63977

Printed: 2018.06.14 @ 05:31:55

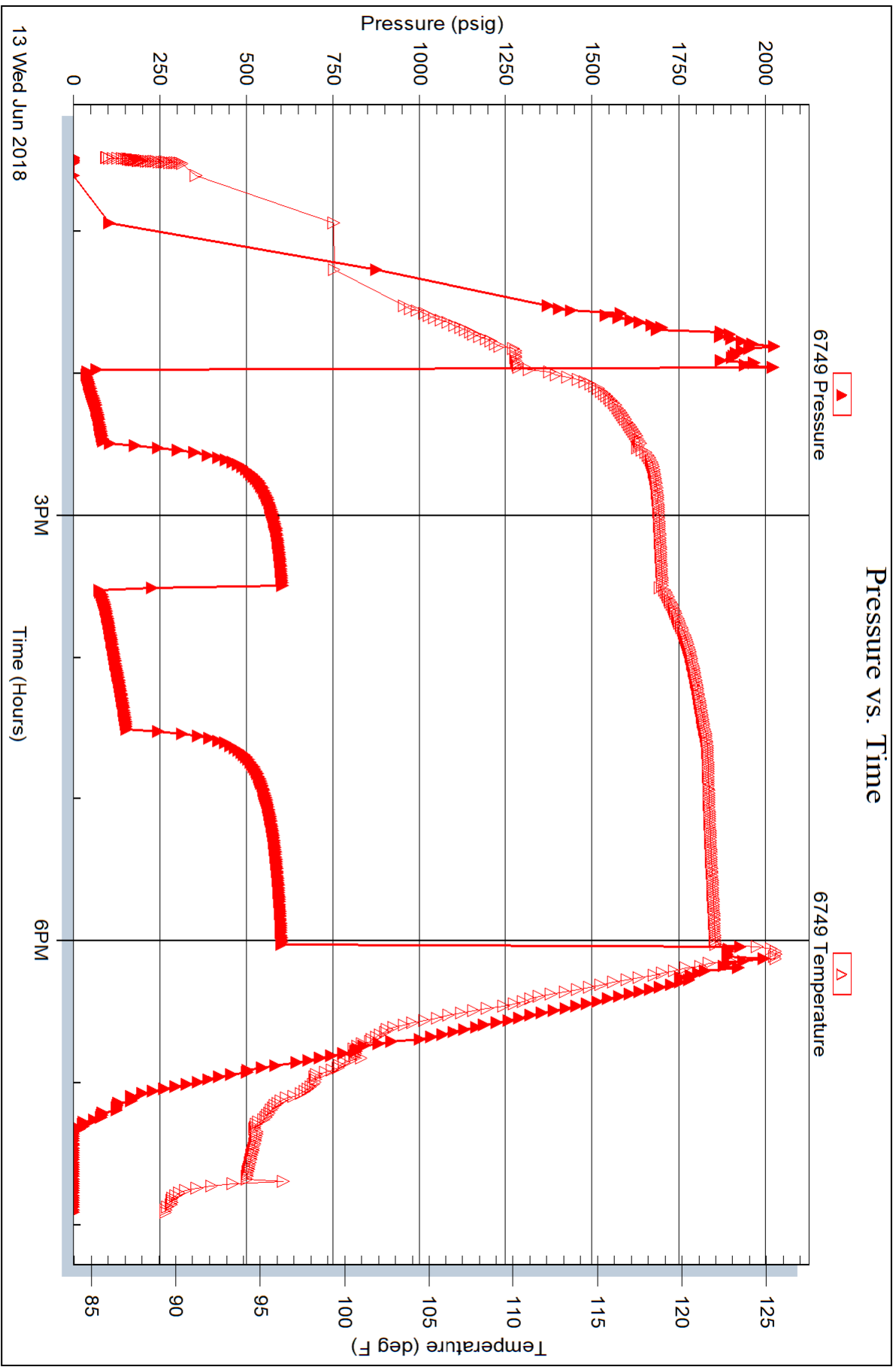
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Outside

Pickrell Drilling Co

Thissen D 1

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 63977

Printed: 2018.06.14 @ 05:31:55

Geologic Report
Aaron L. Young

Drilling Time and Sample Log

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

Well Name: Thissen 'D' # 1
API: 15-095-22322
Location: Section 24 - T28S - R6W
License Number: 5123
Spud Date: 06/06/2018
Surface Coordinates: SE - NW - NE - SE
2263' FSL & 900' FEL
Region: Kingman Co., KS
Drilling Completed: 06/14/2018
Bottom Hole Coordinates:
Ground Elevation (ft): 1437' K.B. Elevation (ft): 1444'
Logged Interval (ft): 2780' To: 4000' Total Depth (ft): 4000'
Formation: Mississippi
Type of Drilling Fluid: Chemical - Andy's

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

OPERATOR

Company: Pickrell Drilling Co., Inc.
Address: 100 S Main STE 505
Wichita, KS 67202+3738

GEOLOGIST

Name: Aaron L. Young, M.S.
Company: Pickrell Drilling Co., Inc.
Address: 100 S Main STE 505
Wichita, Kansas 67202

General Info

CONTRACTOR: Pickrell Drilling, Rig #10

BIT RECORD:

No.	Size	Make	Jets	Out	Feet	Hours
1	12-1/4	JZ RR	15-15-15	223	216	6.00
2	7-7/8	HA20C	14-14-14	3910	3687	91.00
3	7-7/8	HA23	14-14-14	4000	90	3.25

SURVEYS: 223'-.5, 728'-.5, 1205'-1.25, 1709'-1, 2215'-1, 2719'-1, 3910'-1, 4000'-1

GENERAL DRILLING AND PUMP INFORMATION:

Drilling with 35,000 - 38,000 lbs. on bit and approx 75-80 RPM.
Running 9 stands of collars; 532.96'
Pumping approx 850-900 psi at standpipe.

Daily Status

06/06/18 - Spud, Drilled 12 1/4" surface hole to 223', Ran 5 jts of New 8 5/8" surface casing set @ 220', cmt w/ 200 sx Common, 2% gel, 3% CC, 1/4# cellflake/sx. PD @ 8:30am 06/07/18.

06/07/18 - WOC

06/08/18 - Drilling @ 1035'

06/09/18 - Drilling @ 1865'

06/10/18 - Drilling @ 2695'

06/11/18 - Drilling @ 3354'

06/12/18 - Drilling @ 3760'

06/13/18 - DST #1 3880'-3910'

06/14/18 - DST #2 3910'-3934', TD @ 4000'

06/15/18 - P&A, 35sx @ 800', 35sx @ 400', 35sx @ 27', 25sx @ 60', 30sx in RH, 60-40 pozmix, 4% gel, 1/4# flocele/sx, PD @ 6:15PM, Plugging orders approved by Jonathon Hill

DST #1

Mississippi

3,880' - 3,910'

IF: BOB in 30 sec, built to 325"

ISI: No blow back

FF: BOB immed, GTS in 3 min, Guaged

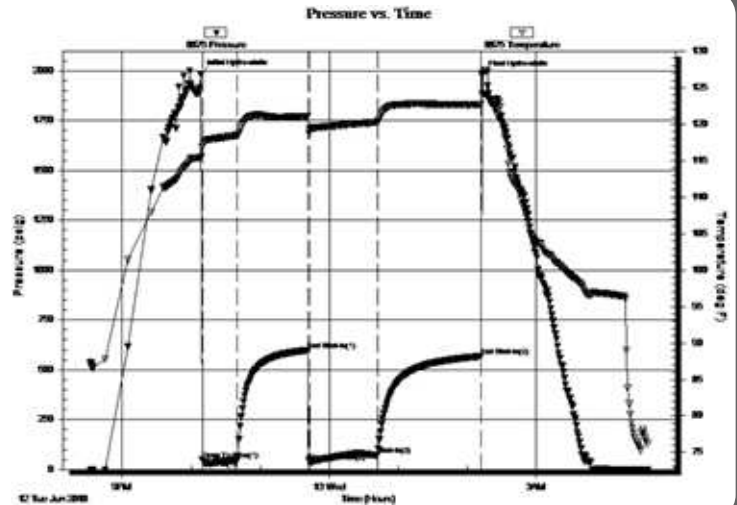
FSI: No blow back

Rec'd: 95' SGCM (5% G, 95% M), 3787' GIP

Max rate: 50 min 59.461 mcf/d

End rate: 48.83 mcf/d

SIP: 598-568#, FP: 49-48#, 39-71#, HP: 1985-1979#



DST #2

Mississippi

3,910' - 3,934'

IF: BOB in 30 sec, built to 315"

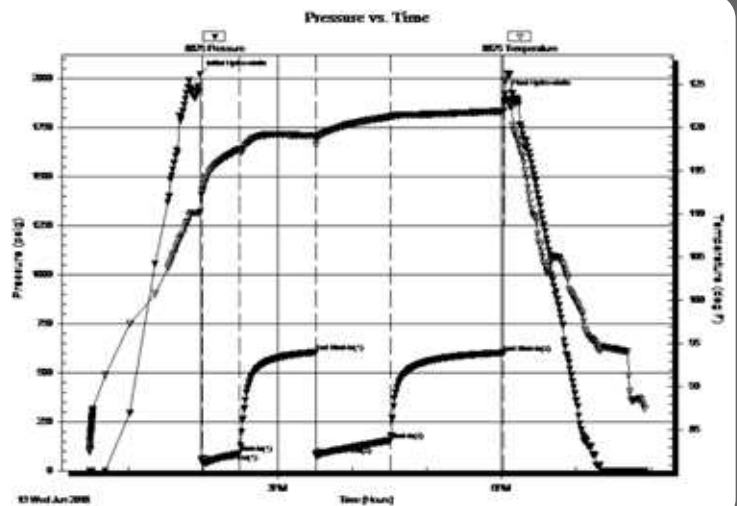
ISI: No blow back

FF: BOB immed, built to 343", GTS in 22 min, TSTM

FSI: No blow back

Rec'd: 40' GOMCW (5% G, 10% O, 30% M, 55% W), 62' OMCW (5% O, 10% M, 85% W), 186' W, 3624' GIP

SIP: 604-602#, FP: 42-89#, 80-154#, HP: 2022-1920#



ROCK TYPES

	Anhy
	Bent
	Brec
	Cht
	Clyst
	Coal
	Congl
	Dol

	Gyp
	Igne
	Lmst
	Meta
	Mrlst
	Salt
	Shale
	Shcol

	Shgy
	Slstst
	Ss
	Till
	Carb sh
	Dol
	Dtd
	Gry sh

	Sandylms
	Shale
	Slststn
	Shlyslts
	Sltysh
	Lms

ACCESSORIES

MINERAL

- Anhy
- Arggrn
- Arg
- Bent
- Bit
- Breclrag
- Calc
- Carb
- Chtdk
- Chtlt
- Dol
- Feldspar
- Ferrpel
- Ferr
- Glau
- Gyp
- Hvymin
- Kaol
- Marl
- Minxl
- Nodule
- Phos
- Pyr



- Salt
- Sandy
- Silt
- Sil
- Sulphur
- Tuff
- Chlorite
- Dol
- Sand
- Slty

FOSSIL

- Algae
- Amph
- Belm
- Bioclst
- Brach
- Bryozoa
- Cephal
- Coral
- Crin
- Echin
- Fish
- Foram



- Fossil
- Gastro
- Oolite
- Ostra
- Pelec
- Pellet
- Pisolite
- Plant
- Strom
- Fuss
- Oomold

STRINGER

- Anhy
- Arg
- Bent
- Coal
- Dol
- Gyp
- Ls
- Mrst
- Slststrg
- Ssstrg
- Carbsh



- Clystn
- Dol
- Grysh
- Gryslt
- Lms
- Sandylms
- Sh
- Slststn

TEXTURE

- Boundst
- Chalky
- Cryxln
- Earthy
- Finexln
- Grainst
- Lithogr
- Microxln
- Mudst
- Packst
- Wackest

OTHER SYMBOLS

POROSITY TYPE

- Earthy
- Fenest
- Fracture
- Inter
- Moldic
- Organic
- Pinpoint
- Vuggy

SORTING

- Well
- Moderate
- Poor

ROUNDING

- Rounded
- Subrnd
- Subang
- Angular

OIL SHOWS

- Even
- Spotted
- Ques
- Dead
- Gas show

INTERVALS

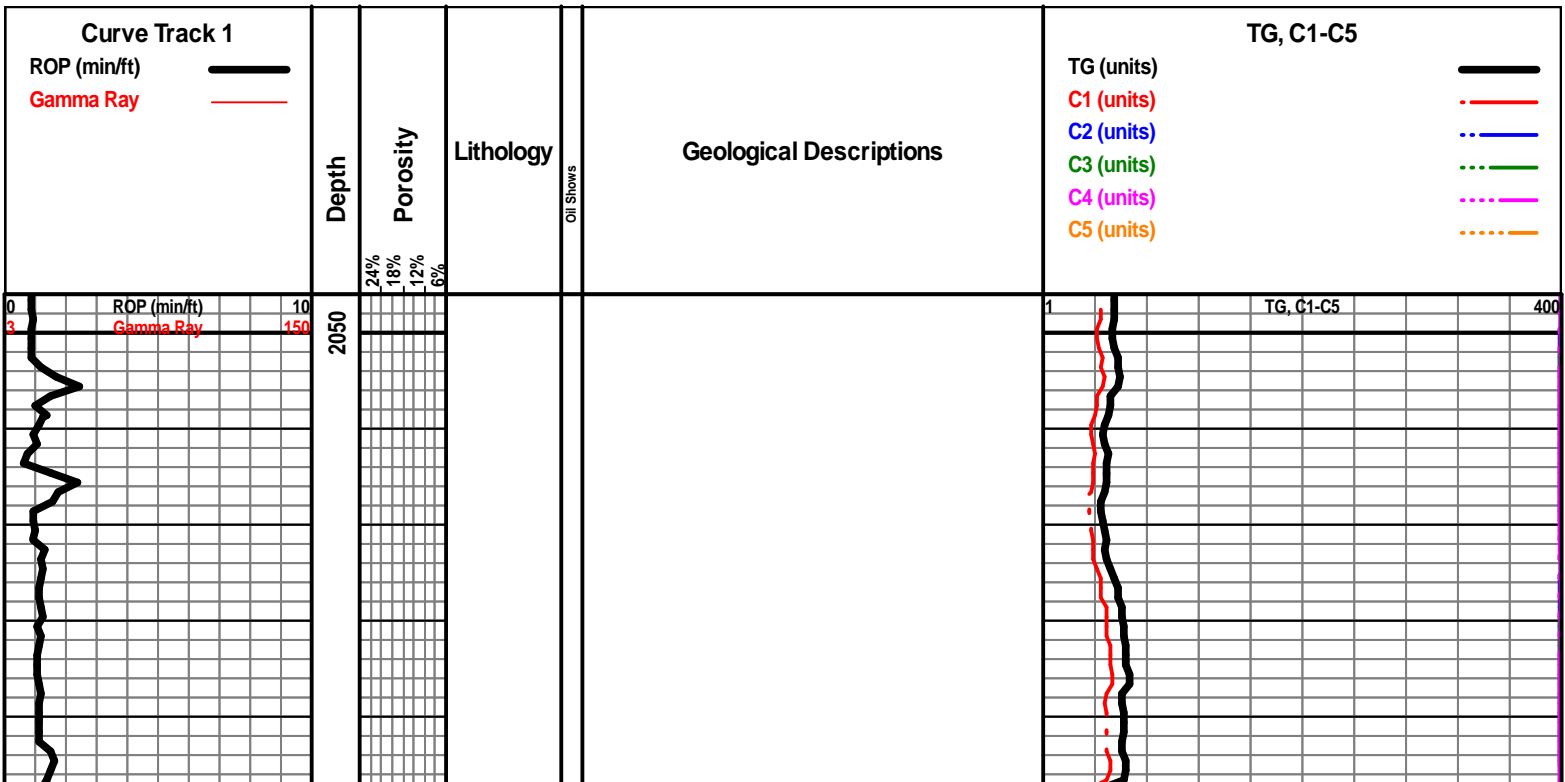
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- Dst

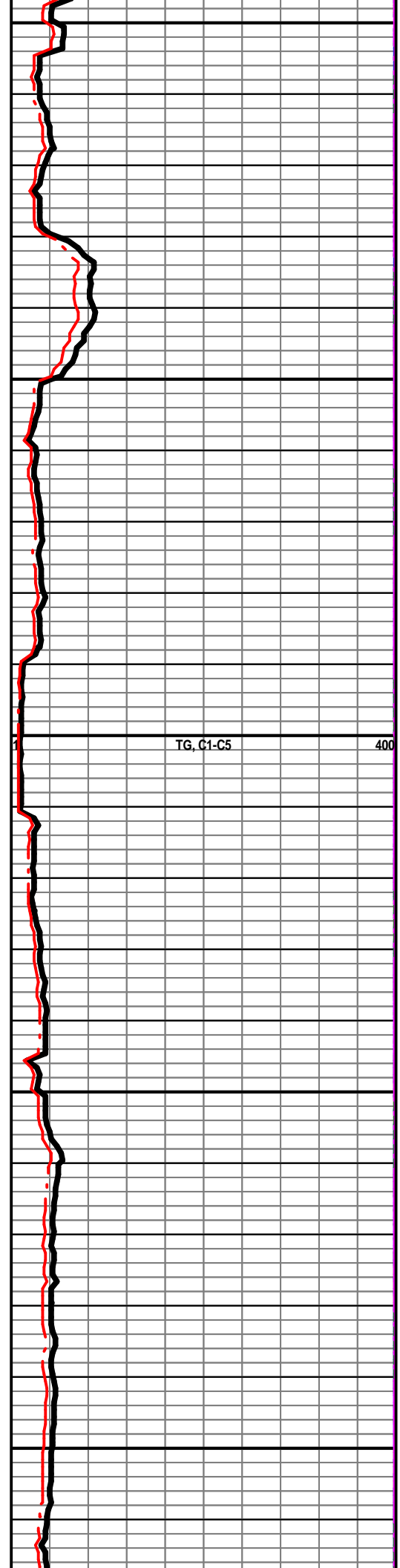
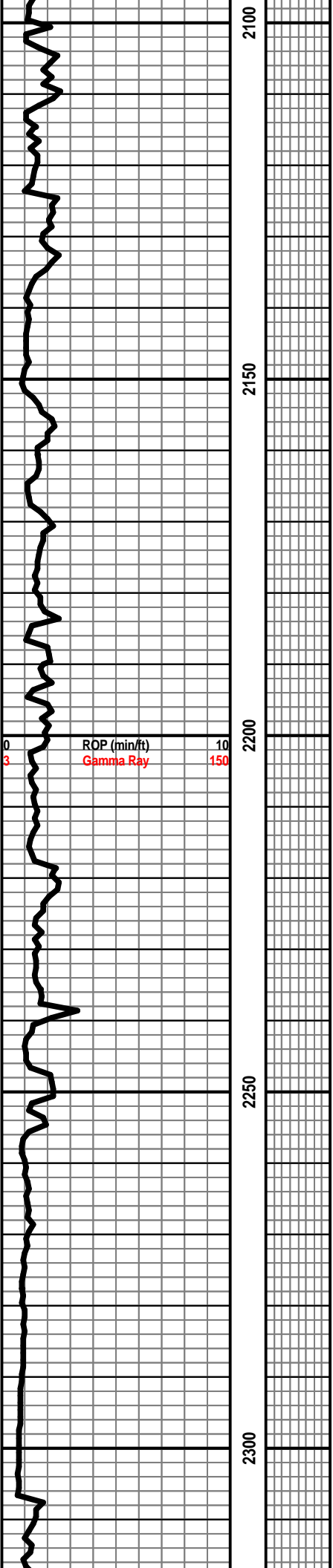


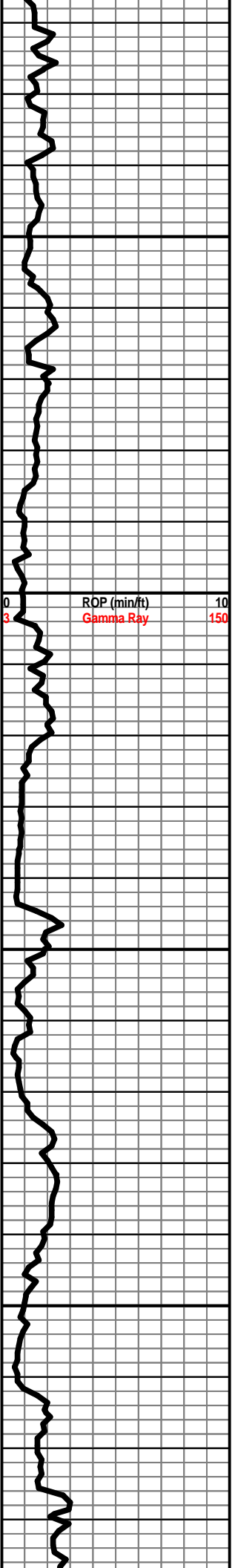
Dst

EVENTS

- Rft
- Sidewall
- Conn





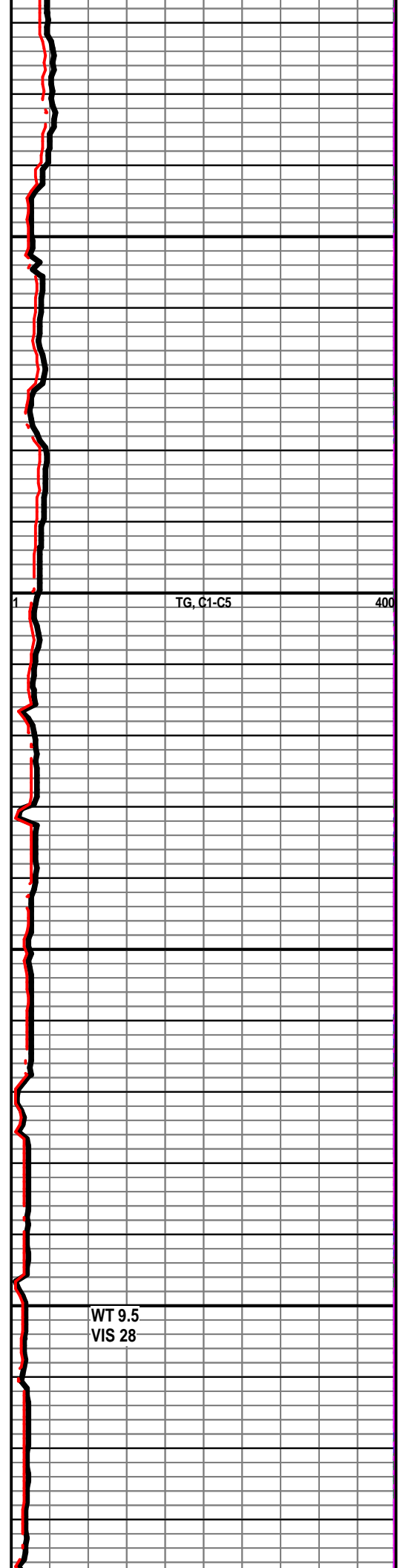


2350

2400

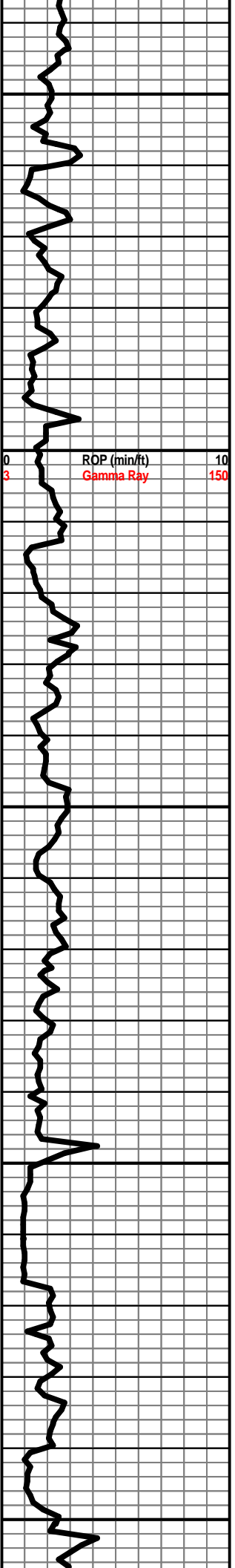
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2500



TG, C1-C5

WT 9.5
VIS 28



2550

2600

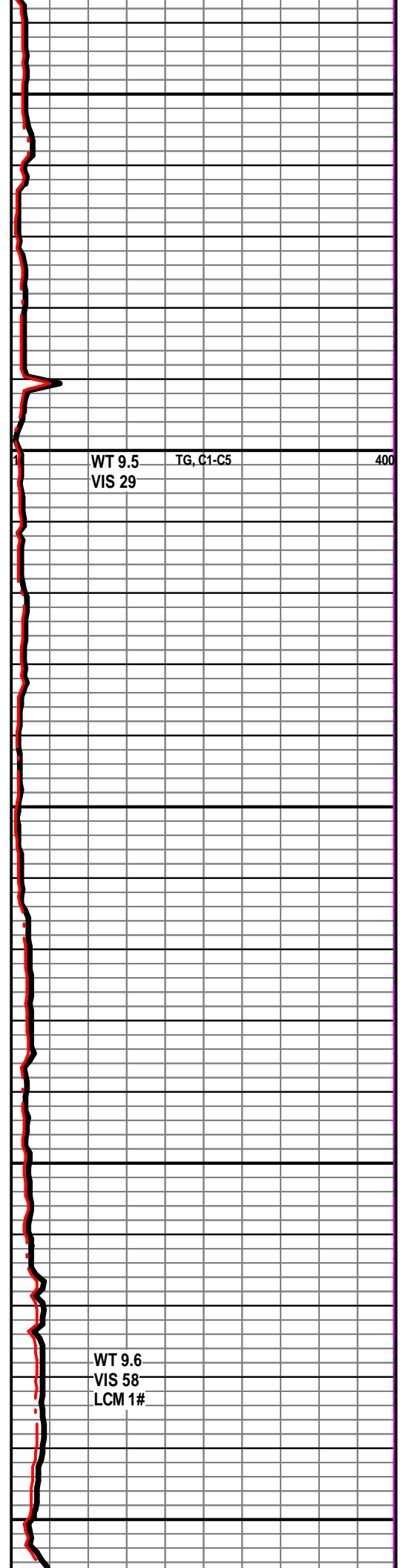
2650

2700

2750

ROP (min/ft)
Gamma Ray

0
10
150

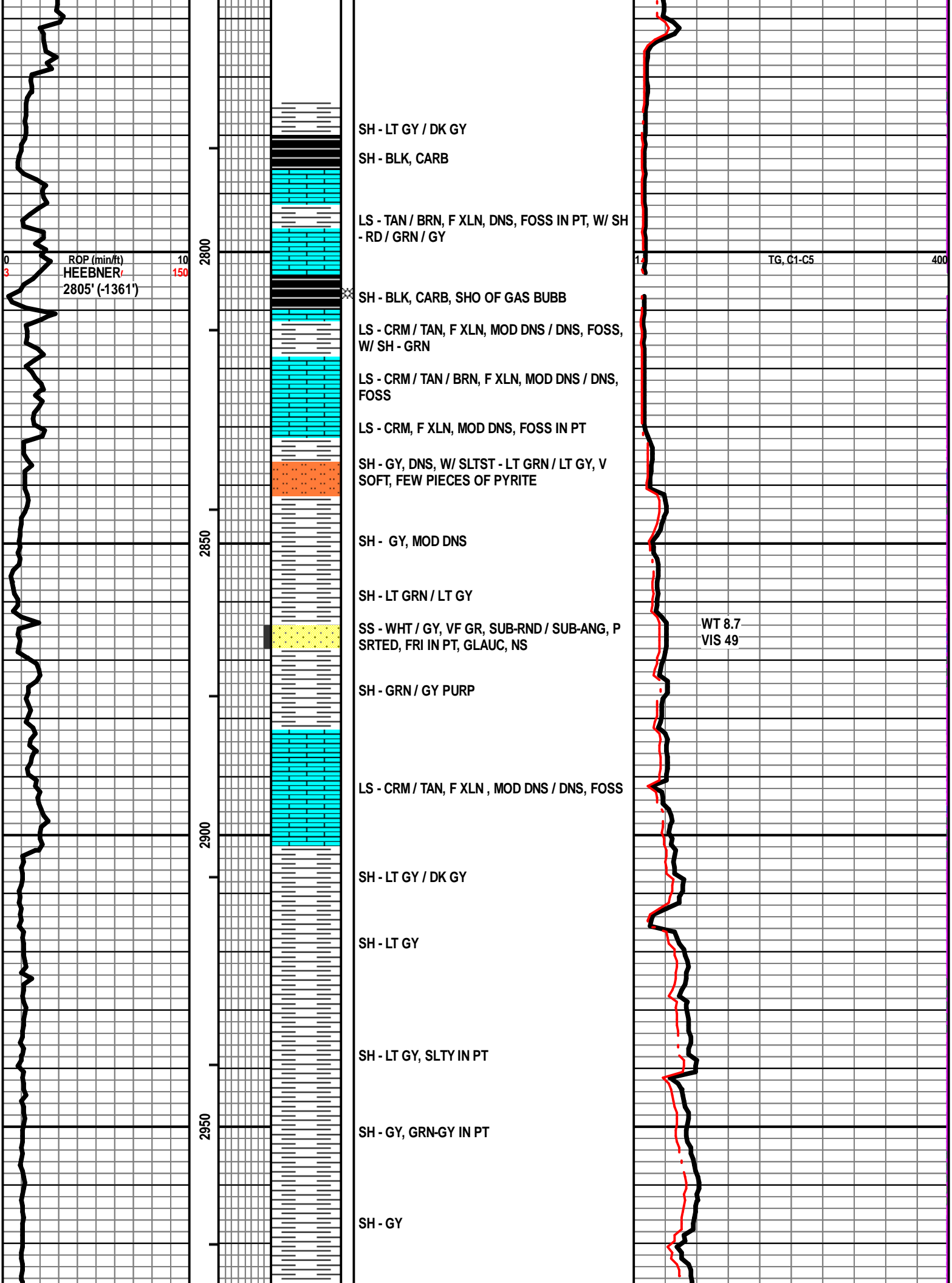


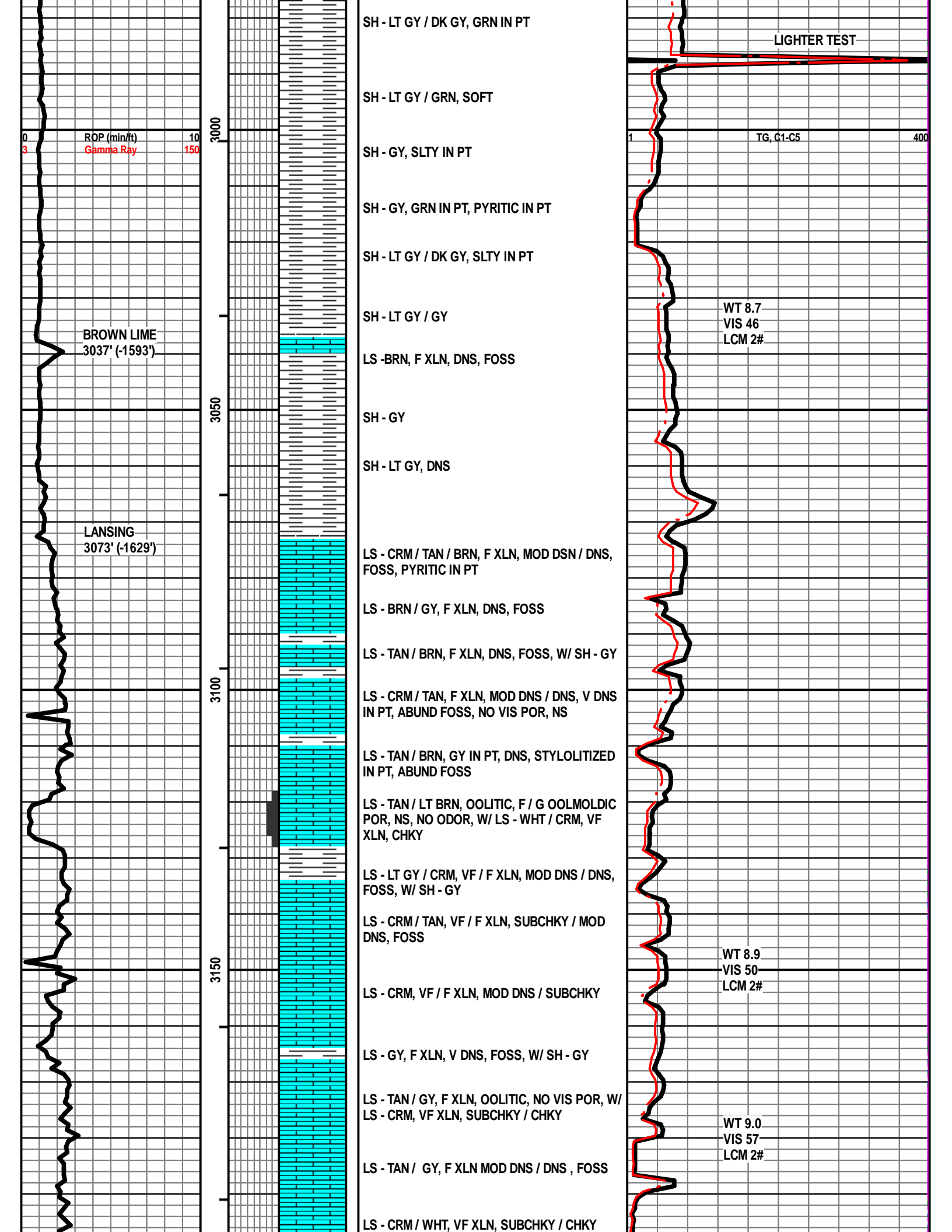
WT 9.5
VIS 29

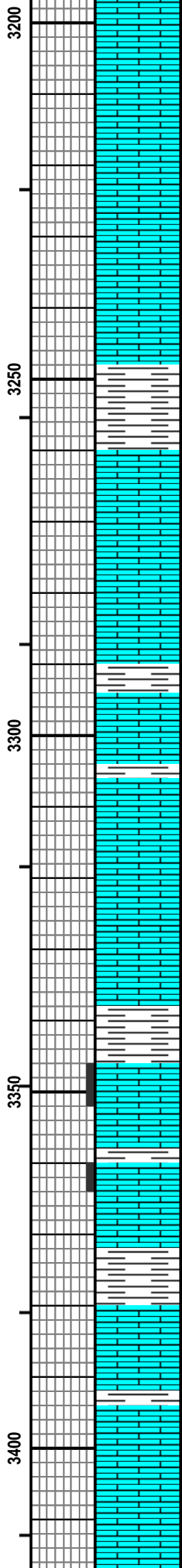
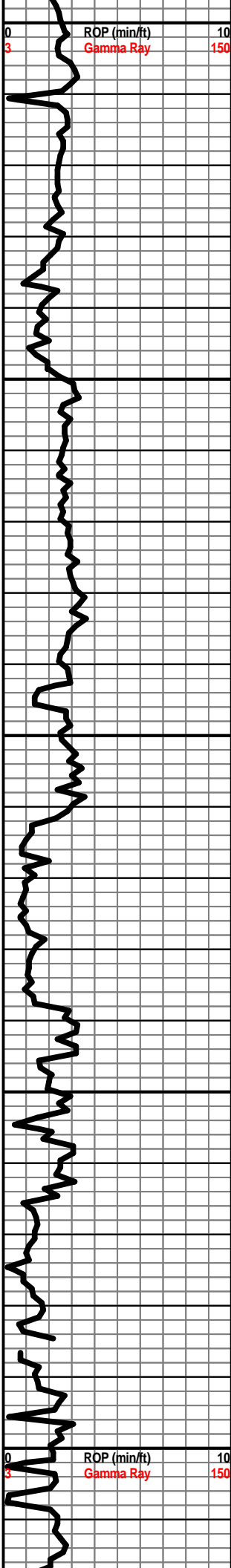
TG, C1-C5

400

WT 9.6
VIS 58
LCM 1#







LS - CRM / TAN, GY IN PT, VF / F XLN, MOD DNS / DNS, FOSS

LS - GY, F / M XLN, DNS / V DNS, FOSS IN PT

LS - TAN / GY, F XLN, DNS, FOSS

LS - CRM, VF / F XLN, SUBCHKY / CHKY, FOSS IN PT

LS - LT GY / DK GY, F XLN, DNS, W/ SH - GRN / PURP

LS - BRN / GY, F XLN, DNS, FOSS, LRG FUSILINIDS

LS - TAN / GY, F XLN, MOD DNS / DNS, FOSS

LS - CRM / TAN, F XLN, MOD DNS, ABUND FOSS

SH - RD / GRN / GY, W/ LS - CRM / TAN, F XLN, MOD DNS, ABUND FOSS

LS - TAN / GY, F XLN, MOD DNS / DNS, FOSS

LS - CRM / TAN / GY, VF / F XLN, MOD DNS / SUBCHKY IN PT, FOSS IN PT

LS - TAN / BRN, F / M XLN, DNS / V DNS, OOLITIC IN PT, NO VIS POR

LS - CRM / TAN, VF / F XLN, SUBCHKY, FOSS

SH - GY, W/ LS - TAN / GY, F / M XLN, DNS, FOSS

LS - TAN / LT BRN, F XLN, OOLITIC, P/F OOLMOLDIC POR, NS, NO CUP ODOR, NO FLUOR, RIG HANDS REPORTED ODOR AROUND SAMP BOX

SH - GRN / RD / BRN, W/ LS - CRM / TAN, F XLN, MOD DNS, P INTERXLN POR, NS, NO ODOR

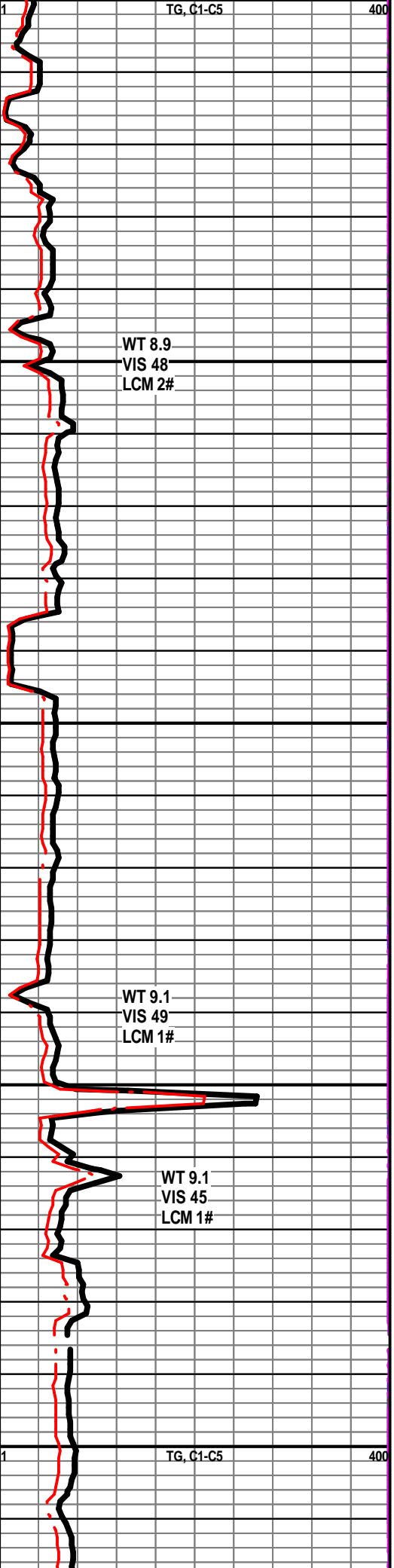
LS - CRM / TAN, F XLN MOD DNS / DNS, FOSS, W/ SH - GY / GRN

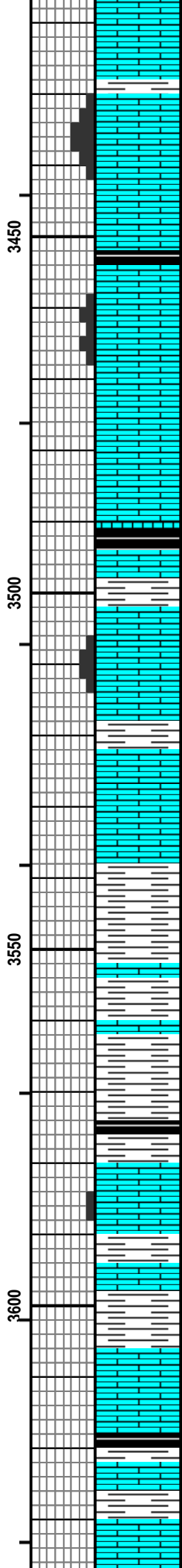
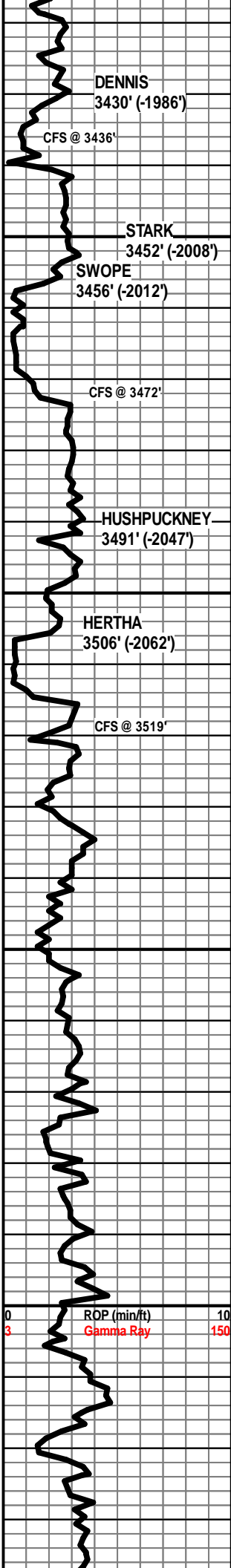
LS - CRM / TAN, F / M XLN, DNS / V DNS, FOSS

LS - CRM, VF / F XLN, SUBCHKY / CHKY, FOSS IN PT

LS - TAN / GY, BRN IN PT, F XLN, MOD DNS / DNS, FOSS

LS - CRM / TAN, F XLN, DNS, ABUND FOSS





LS - GRN / TAN, F XLN, DNS, ABUND FOSS, OOLITIC IN PT, NO VIS POR, NS

LS - TAN, F XLN, MOD DND / DNS, FOSS

LS - TAN / BRN, F XLN, F / G OOLMOLDIC + INTERXLN POR, ABUND OF FOSS, NS, NO ODOR, NO FLUOR

LS - TAN / GY, F XLN, MOD DNS / DNS, FOSS

SH - BLK, CARB, PYRITIC IN PT

LS - GY / BRN, VF / F XLN, P / F OOLMOLDIC POR, FOSS IN PT, NS, NO ODOR, V DULL FLUOR

LS - TAN / GY, F / M XLN, DNS, FOSS, LRG FUSILINIDS

LS - GY / BRN, F XLN, MOD DNS, FOSS

LS - CRM / WHT, VF XLN, SUBCHKY / CHKY, FOSS IN PT

SH - BLK, CARB, W/ LS - BRN / TAN, F / M XLN, DNS, FOSS, LRG FUSILINIDS

LS - TAN / BRN, VF / F XLN, P / F OOLMOLDIC POR, NS, NO ODOR, MOD FLUOR, ABUND FOSS

SH - GRN / GY, W/ LS - CRM / TAN, VF XLN, SUBCHKY / CHKY IN PT

LS - BRN / GY, F / M XLN, MOD DNS / DNS, FOSS

SH - DK GY / GRN, W/ LS - TAN / BRN / GY, F XLN, MOD DNS / DNS FOSS

SH - GRN / DK GY

SH - GRN / DK GY

SH - BLK, CARB, W/ SH - LT GY / DY GY

LS - TAN / BRN / GY IN PT, F XLN, MOD DNS / DNS, FOSS, P OOLMOLDIC POR IN PT, NS, NO ODOR

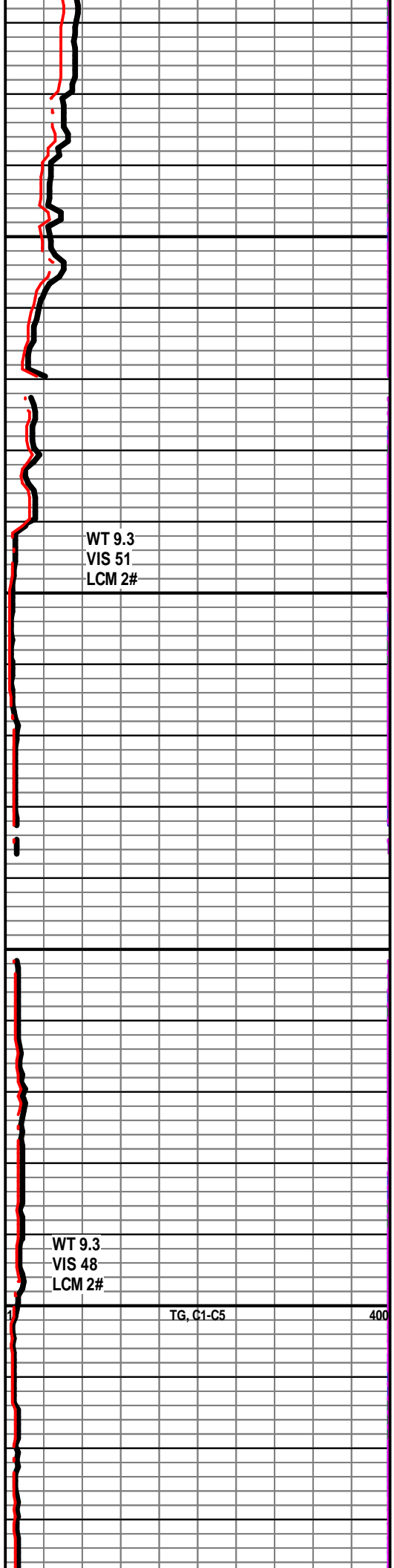
SH - GRN / GY / MAR, W/ LS - TAN / GY, F XLN, MOD DNS, FOSS

LS - TAN / GY, VF / F XLN, MOD DSN / SUBCHKY, FOSS IN PT, W/ SH - GY

SH - BLK, CARB, W/ LS - CRM / TAN, VF XLN, SUBCHKY / MOD DNS

SH - GRN / GY, W/ LS - CRM / TAN, F XLN, MOD DNS / DNS, FOSS

SH - RD / GRN, W/ LS - CRM / TAN, F XLN, DNS,

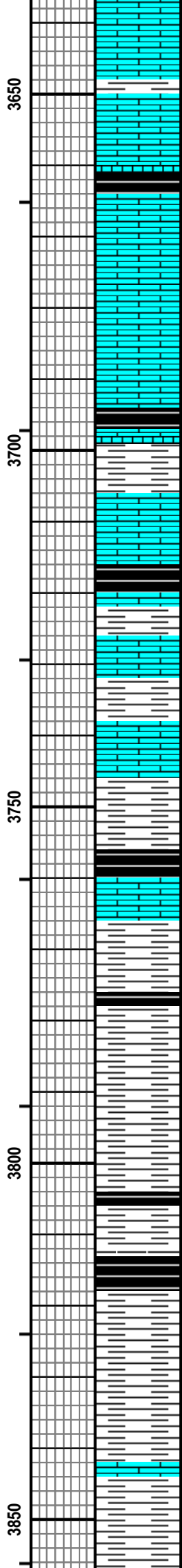
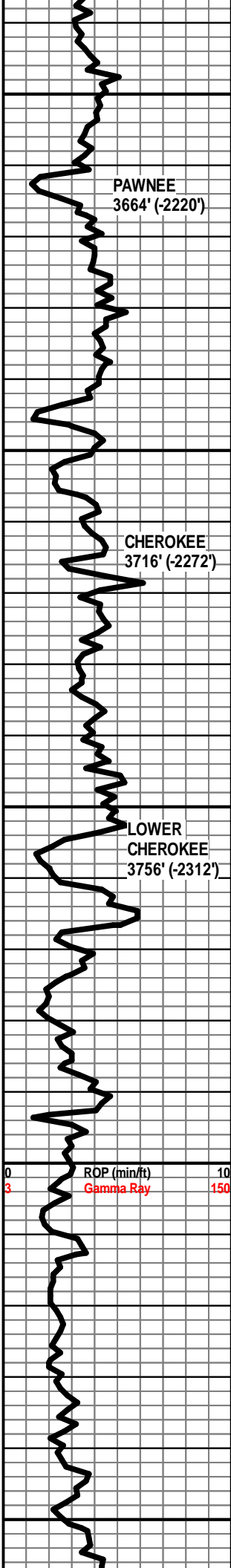


WT 9.3
VIS 51
LCM 2#

WT 9.3
VIS 48
LCM 2#

TG, C1-C5

400



FOSS, LRG FUSILINIDS, CRINOIDS

SH - LT GRN / GY, PYRITIC IN PT, W/ LS - CRM, VF / F XLN, SUBCHKY, FOSS IN PT

LS - TAN / GY, VF / F XLN, MOD DNS / SUBCHKY, FOSS IN PT

SH - BLK, CARB, W/ LS - TAN / BRN, F XLN, MOD DNS / DNS, FOSS IN PT

LS - TAN / GY / BRN IN PT, F / M XLN, V DNS, FOSS

LS - TAN / GY, F XLN, DNS, FOSS

SH - BLK, CARB, SLI PYRITIC, W/ SH - GRN / GY, W/ LS - CRM / TAN, F XLN, MOD DNS / DNS, FOSS, OOLITIC IN PT, NO VIS POR, NS

LS - GY, VF XLN, SUBCHKY / CHKY, W/ SH - GRN / GY

SH - BLK, CARB, W/ FEW PIECES OF PYRITE, W/ SH - LT GY / GRN

LS - TAN / GY, VF / F XLN, MOD DNS / SUBCHKY, W/ SH - GY

SH - LT GY, W/ LS - TAN / LT BRN, F XLN, MOD DNS / DSN, FOSS

SH - LT GY / GY, STREAKS OF PYRITE, W/ LS - CRM / TAN / GY, VF / F XLN, MOD DNS / DNS, FOSS

SH - BLK, CARB, PLATY, IRON STN IN PT, W/ SH - LT / DK GY, W/ LS - TAN / GY, F XLN, MOD DNS / DNS FOSS

LS - TAN / GY, F XLN, DNS, FOSS, W/ SH - LT GRN / LT GY

SH - DK GRN / GY, W/ SH - BLK, CARB

SH - RD / GRN / GY

SH - GRN / GY / YEL IN PT

SH - RD / GRN / GY / YEL

SH - GRN / GY / RD / MAR / PURP

SH - DK GY / BLK, SLI CARB, W/ SH - GY / GRN / PURP

SH - GY / GRN / YEL

SH - GRN / YEL / GY

SH - GRN / PURP / YEL IN PT, W/ FEW PIECES OF LS - TAN, F XLN, MOD DNS, NO VIS POR, NS, NO ODOR

SH - GY / GRN / MAR / PURP

WT 9.2
VIS 48
LCM 2#

WT 9.4
VIS 48
LCM 2#

PLUGGED
SAMPLE LINE

DST #1
Mississippi
3,880' - 3,910'

IF: BOB in 30 sec, built to 325"
ISI: No blow back
FF: BOB immed, GTS in 3 min,
Guaged
FSI: No blow back

WT 9.5
VIS 49
LCM 1#

Rec'd: 95' SGCM (5% G, 95% M),
3787' GIP

Max rate: 50 min 59.461 mcf/d
End rate: 48.83 mcf/d

SIP: 598-568#, FP: 49-48#, 39-71#,
HP: 1985-1979#

NEW SAMPLE
LINE INSTALLED

SHORT TRIP
@ 3800' TG, C1-C5

DST #2
Mississippi
3,910' - 3,934'

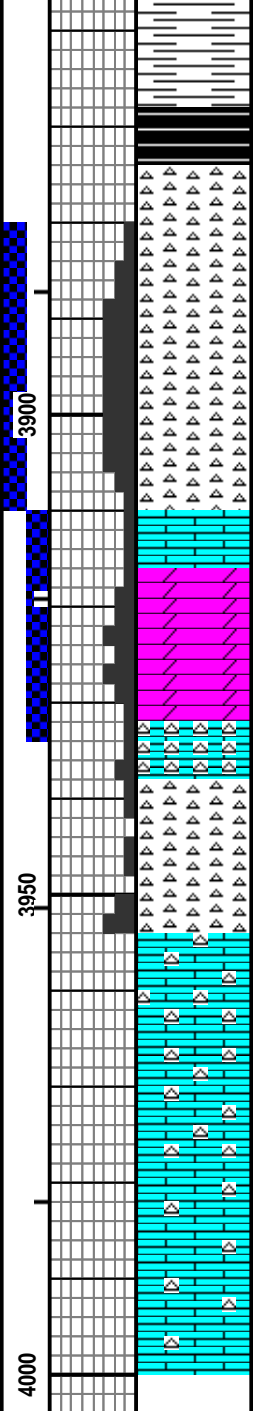
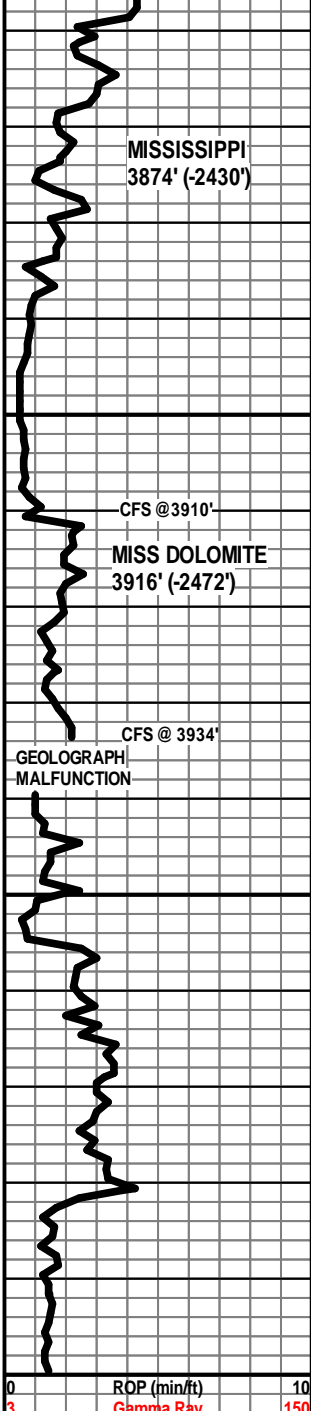
WT 9.5
VIS 48
LCM 1#

IF: BOB in 30 sec, built to 315"
ISI: No blow back
FF: BOB immed, built to 343", GTS
in 22 min, TSTM
FSI: No blow back

Rec'd: 40' GOMCW (5% G, 10% O,
30% M, 55% W), 62' OMCW (5% O,
10% M, 85% W), 186' W, 3624' GIP

WT 9.4
VIS 60
LCM 2#

SIP: 604-602#, FP: 42-89#,
80-154# HP: 2022-1920#



SH - MAR / PURP / GRN / YEL

SH - GRN / PURP / YEL

SH - GY / GRN / MAR / PURP / YEL, W/ FEW
PIECES LS - TAN / GY, F XLN, DNS, NO VIS
POR, NS, FOSS IN PT

CHT - WHT, 50% WEATH, 50% FRSH, P/F WEATH POR, SLI
SHO GAS, V SLI OIL SHEEN, G YEL / GRN FLUOR

● CHT - WHT, PRED WEATH, SLI DOLOMITIC, F / G WEATH
POR, G SHO GAS, SSFO, OIL FLOATING IN DISH, G ODOR,
BRI YEL-GRN FLUOR,

● CHT - WHT / BRN, PRED WEATH, SLI DOLOMITIC, G WEATH
POR, F VUG POR, G SHO GAS, FSFO, OIL BLEEDING, G
ODOR, G YEL-GRN FLUOR

● LS - WHT / CRM, VF / F XLN, P / F INTXLN POR, G SHO GAS,
SSFO, F ODOR, BRI YEL-GRN FLUOR, FOSS IN PT, SUBCHKY
IN PT, FEW PIECES CHT

● DOLO - TAN / BRN, VF / F XLN, F / G INTXLN
POR, VUG POR IN PT, SUCROSIC IN PT, FSFO,
F ODOR, G SHO GAS, BRI YEL-GRN FLUOR,
FEW PIECES CHT

● LS - WHT, F XLN, SILICEOUS, P / F INTXLN POR, F SHO GAS,
SSFO, MOD YEL-GRN FLUOR, F ODOR, W / FEW PIECES OF
LS - WHT, VF XLN, V CHKY

● CHT - WHT / GY, PRED FRSH, PRED OPAQ, SLI
TRANSLUCNT IN PT, F WEATH POR IN PT, NS, N
ODOR, V DULL FLUOR

● LS - BRN / GY / WHT, F XLN, DNS, ABUND BLK SPECS,
SILICEOUS, ABUND FOSS, NO VIS POR, NS

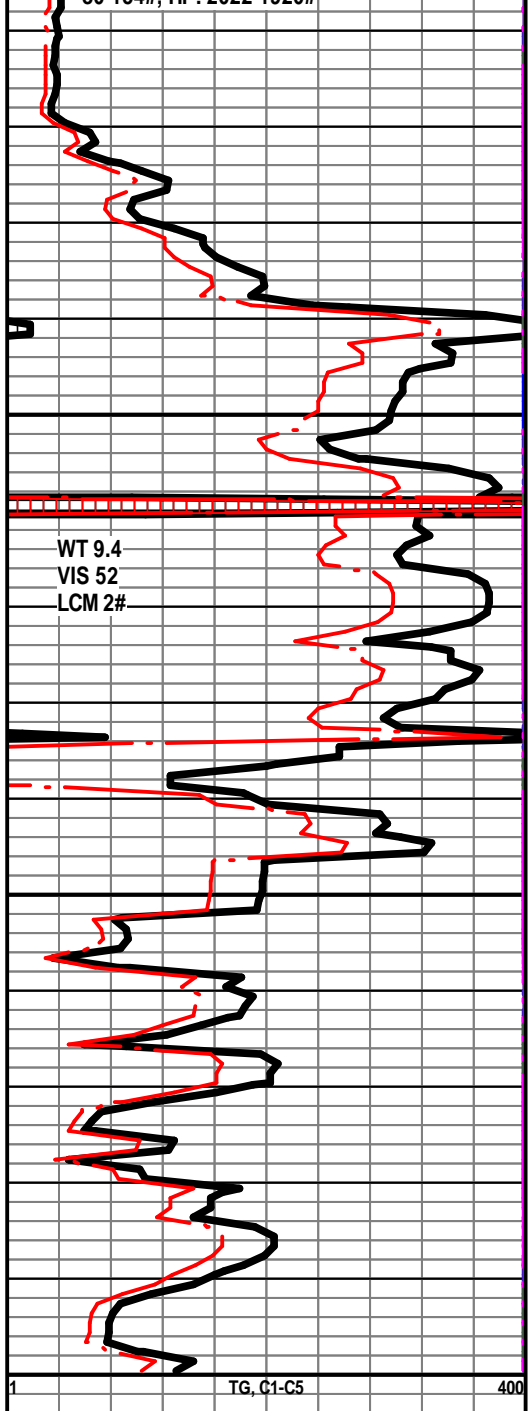
● LS - CRM / BRN / GY, F XLN, MOD DNS / DNS, ABUND BLK
SPECS, SILICEOUS IN PT, ABUND FOSS

● LS - CRM / WHT / GY, VF / F XLN, SUBCHKY /
CHKY, BLK SPECS IN PT, FOSS IN PT

● LS - GY / TAN / BRN IN PT, VF / F XLN,
SILICEOUS IN PT, CHKY IN PT, PRED MOD DNS,
FOSS, BLK SPECS, NS

● LS - BRN / GY, F XLN, MOD DNS / DNS, BLK
SPECS, SLI SILICEOUS, NS

RTD 4000'



QUALITY WELL SERVICE, INC.

6850

Federal Tax I.D. # 481187368

Home Office 30060 N. Hwy 281, Pratt, KS 67124

Mailing Address P.O. Box 468

Office 620-727-3410

Fax 620-672-3663

Rich's Cell 620-727-3409

Brady's Cell 620-727-6964

Date	6-7-13	Sec.	24	Twp.	28S	Range	6W	County	Kingman	State	Ks	On Location	5:30	Finish	8:45
Lease	Thissen		Well No.	D-1		Location									
Contractor										Owner					
Pickrell Drilling *10										To Quality Well Service, Inc.					
Type Job	SURFACE		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.	223'											
Csg.	35/2		Depth	Charge To Pickrell Drilling Company Inc											
Tbg. Size			Depth	Street											
Tool			Depth	City State											
Cement Left in Csg.	25		Shoe Joint	25											
The above was done to satisfaction and supervision of owner agent or contractor.															
Meas Line			Displace	12.6 Bbl		Cement Amount Ordered 200# Common									
EQUIPMENT										2 1/2 GAL 3/4 CC 1/4" CF					
Pumptrk	8	No.	TJ		Common 200										
Bulktrk	9	No.	MIKE		Poz. Mix										
Bulktrk		No.			Gel. 4										
Pickup		No.	TODD		Calcium 70										
JOB SERVICES & REMARKS										Hulls					
Rat Hole	Salt														
Mouse Hole	Flowseal 50														
Centralizers	Kol-Seal														
Baskets	Mud CLR 48														
D/V or Port Collar	CFL-117 or CD110 CAF 38														
Run 5 H's 35/2 23' csg										Sand					
SET 7 220										Handling 215					
csg on Bottom										Mileage 45					
BREAK CIRC										FLOAT EQUIPMENT					
Pump 10 Bbl H ₂ O										Guide Shoe					
Pump 200# Common										Centralizer					
2 1/2 GAL 3/4 CC 1/4" CF										Baskets					
										AFU Inserts					
DISOL 26 Bbl H ₂ O										Float Shoe					
Bliss Valve 3.30 200#										Latch Down					
6000 CIRC TWO TOP										LMV 45					
CIRC CUT TO PT										SERVICE SUPERVISOR					
THANK YOU										Pumptrk Charge SURFACE					
PLEASE CALL AGAIN										Mileage HEAVY 90					
TODD IS MIKE															
Signature <i>[Signature]</i>															
										Tax					
										Discount					
										Total Charge					