

1370323



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 <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
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:				

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)*

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>			PRODUCTION INTERVAL: Top _____ Bottom _____	

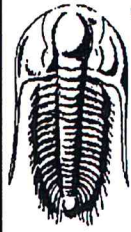
Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:
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Form	ACO1 - Well Completion
Operator	Red Oak Energy, Inc.
Well Name	PEARCE TRUST 1-32
Doc ID	1370323

Tops

Name	Top	Datum
Anhy	2427	+827
Topeka	3501	-247
Heebner	3767	-513
Lansing	3817	-563
Marmaton	4212	-958
Cherokee	4350	-1096
Morrow Sh	4537	-1283
Miss	4650	-1396



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Red Oak Energy Inc
7701 E Kellog Dr Ste 710
Wichita, Ks 67207

ATTN: Larry Friend

32-13-38w Wallace, Ks
Pearce 1-32
Job Ticket: 63801 **DST#: 1**
Test Start: 2017.05.10 @ 18:29:24

GENERAL INFORMATION:

Formation: **Topeka**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 22:54:54
Time Test Ended: 03:26:54

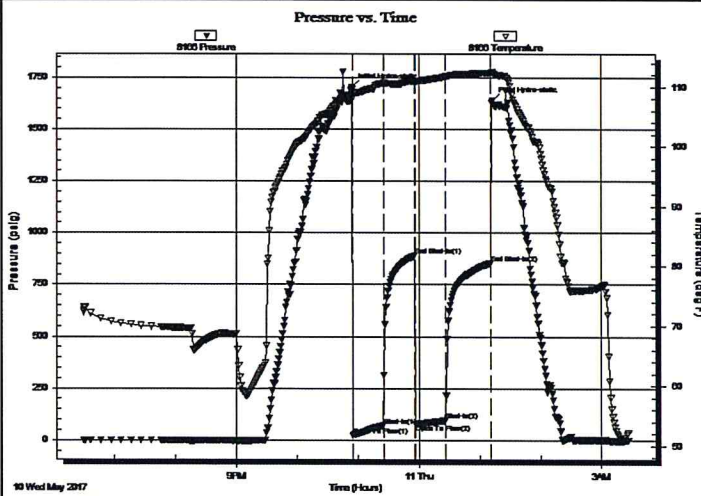
Interval: **3522.00 ft (KB) To 3586.00 ft (KB) (TVD)**
Total Depth: 3586.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole (Initial)
Tester: Brandon Turley
Unit No: 79

Reference Elevations: 3254.00 ft (KB)
3247.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 8166 Outside
Press@RunDepth: 93.77 psig @ 3523.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2017.05.10 End Date: 2017.05.11 Last Calib.: 2017.05.11
Start Time: 18:29:29 End Time: 03:26:54 Time On Btm: 2017.05.10 @ 22:53:54
Time Off Btm: 2017.05.11 @ 01:12:24

TEST COMMENT: IF: 1/4 blow built to 3.
IS: No return.
FF: Surface blow built to 1 1/4.
FS: No return.



PRESSURE SUMMARY

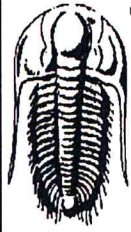
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1701.95	108.96	Initial Hydro-static
1	<u>22.92</u>	108.18	Open To Flow (1)
31	<u>70.04</u>	110.60	Shut-In(1)
62	889.07	110.99	End Shut-In(1)
63	76.88	110.78	Open To Flow (2)
92	93.77	111.74	Shut-In(2)
137	855.01	112.36	End Shut-In(2)
139	1637.80	112.46	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	w cm 20%w 80%m	0.63
45.00	mud oil spots 100%m	0.63

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Red Oak Energy Inc

32-13-38w Wallace, Ks

7701 E Kellog Dr Ste 710
Wichita, Ks 67207

Pearce 1-32

Job Ticket: 63801

DST#: 1

ATTN: Larry Friend

Test Start: 2017.05.10 @ 18:29:24

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: 19000 ppm
Viscosity: 52.00 sec/qt	Cushion Volume: bbl	
Water Loss: 6.40 in ³	Gas Cushion Type:	
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 3000.00 ppm		
Filter Cake: 1.00 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
124.00	w cm 20%w 80%m	0.628
45.00	mud oil spots 100%m	0.631

Total Length: 169.00 ft Total Volume: 1.259 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

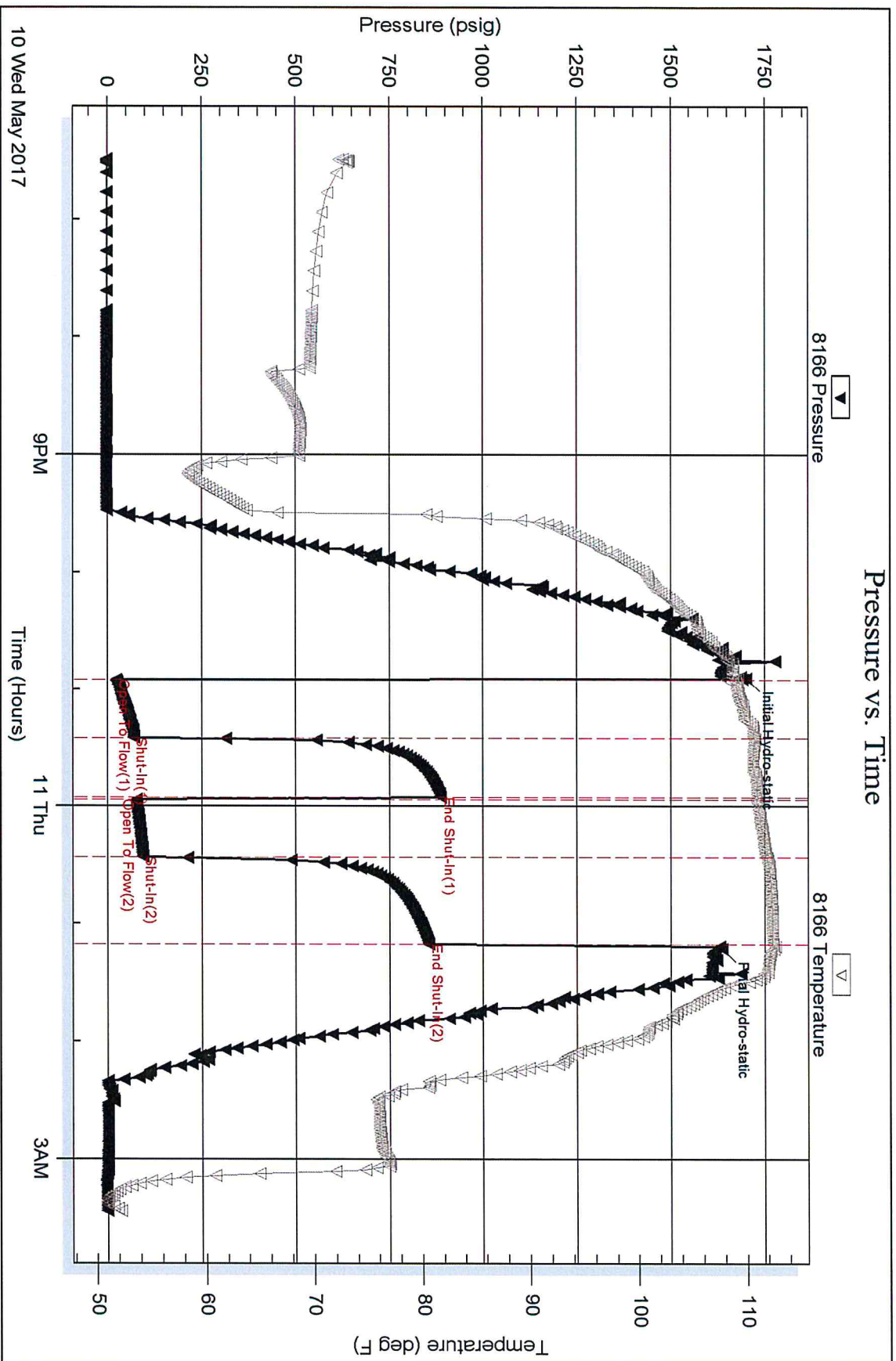
Recovery Comments: .49@52=19000

Serial #: 8166

Outside Red Oak Energy Inc

Pearce 1-32

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 63801

Printed: 2017.05.11 @ 07:35:27

WELL INFORMATION

Company: RED OAK ENERGY, INC.
Address: 7701 E. KELLOGG DR., STE 710
WICHITA, KS 67207

Well Name: PEARCE TRUST 1-32

Location: 253' FNL & 1570' FWL
SECTION 32-T13S-R38W
WALLACE COUNTY, KANSAS

API: 15-199-20440
Field: WILDCAT

K. B. Elevation: 3254 Rotary Depth: 4710
Ground Elevation: 3247 Log Depth: 4708

Spud Date: 5/6/2017 Drilling Completed: 5/14/2017

Completion: CEDAR HILLS DISPOSAL
Surface Casing: 8 5/8", 23# SET @ 386' Production Casing: 5.5" SET @ 2511

Formation at TD: MISSISSIPPIAN
Drilling Fluid Type: CHEMICAL

Rig Contractor: STP DRILLING, RIG #1
Logger: ELI Logs Run: CND, DI

Wellsite Geologist: LARRY P. FRIEND

FORMATION DEPTHS

COMPARED TO:
RED OAK ENERGY, INC.
JOHNSON VIEW 1-30
SW/4, 30-T13S-R38W

FORMATION DEPTHS	SAMPLE	LOG	
BLAINE ANHYDRITE	1801 (+1453)	1800 (+1454)	+56
CEDAR HILLS SAND	2139 (-1115)	2135 (-1119)	+70
STONE CORRAL	2430 (+824)	2427 (+827)	+15
BASE	2459 (+795)	2453 (+801)	+15
FT. RILEY	2673 (+581)	2667 (+587)	-2
BS. FLORENCE	2777 (+477)	2774 (+480)	FLAT
NEVA	3082 (+172)	3078 (+176)	-7
STOTLER	3420 (-166)	3418 (-164)	-8
TOPEKA	3504 (-250)	3501 (-247)	-11
HEEBNER SHALE	3770 (-516)	3767 (-513)	-11
LANSING	3820 (-566)	3817 (-563)	-15
BKC	4186 (-932)	4179 (-925)	-19
MARMATON	4216 (-962)	4210 (-956)	-30
CHEROKEE	4354 (-1100)	4350 (-1096)	-36
MORROW SHALE	4540 (-1286)	4538 (-1284)	-52
UP MORROW SAND	MISSING		
LW MORROW SAND	4645 (-1391)	4642 (-1388)	-45
MISS	4653 (-1399)	4650 (-1396)	-48

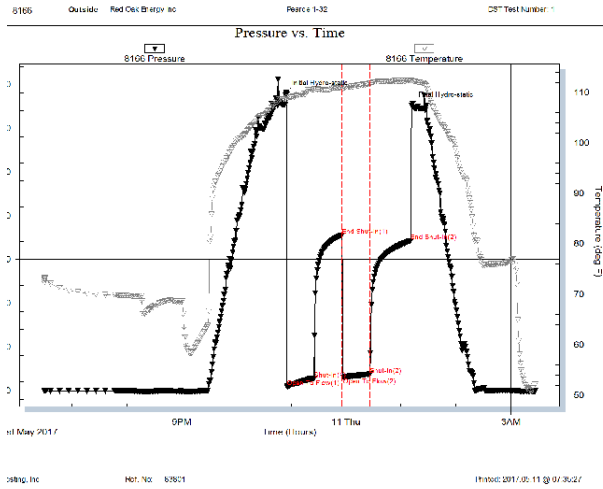
NOTES

IT WAS DECIDED TO RUN CASING TO THE STONE CORRAL TO MAKE THIS HOLE INTO A CEDAR HILLS DISPOSAL WELL.
LARRY FRIEND

DRILLSTEM TESTS

No	Interval	Formation
1	3522 - 3586	TOPEKA

DSI #1: TOPEKA 3522 - 3586



ROCK TYPES

- | | | | |
|--------|-----------|-------|-----------|
| Coal | Lmst fw7> | Shgy | Slst |
| Dolsec | Ss | Shbck | Ool grnst |

ACCESSORIES

MINERAL

- ▲ Chert, dark
- Sandy
- ^ Siliceous
- Silty
- △ Chert White

FOSSIL

- Oolites

OTHER SYMBOLS

OIL SHOWS

- Even Stn
- Spotted Stn 50 - 75 %
- Spotted Stn 25 - 50 %
- Spotted Stn 1 - 25 %
- Questionable Stn
- D Dead Oil Stn
- Fluorescence

INTERVALS

- Core
- DST

Printed by GEOstrip VC Striplog version 4.0.8.15 (www.grsi.ca)

Curve Track #01		Depth Intervals	Interpreted Lithology	Oil Shows	Geological Descriptions	Comment
ROP (min/ft)	Total Gas (units)					

Cored Interval

DST Interval

1:240 Imperial

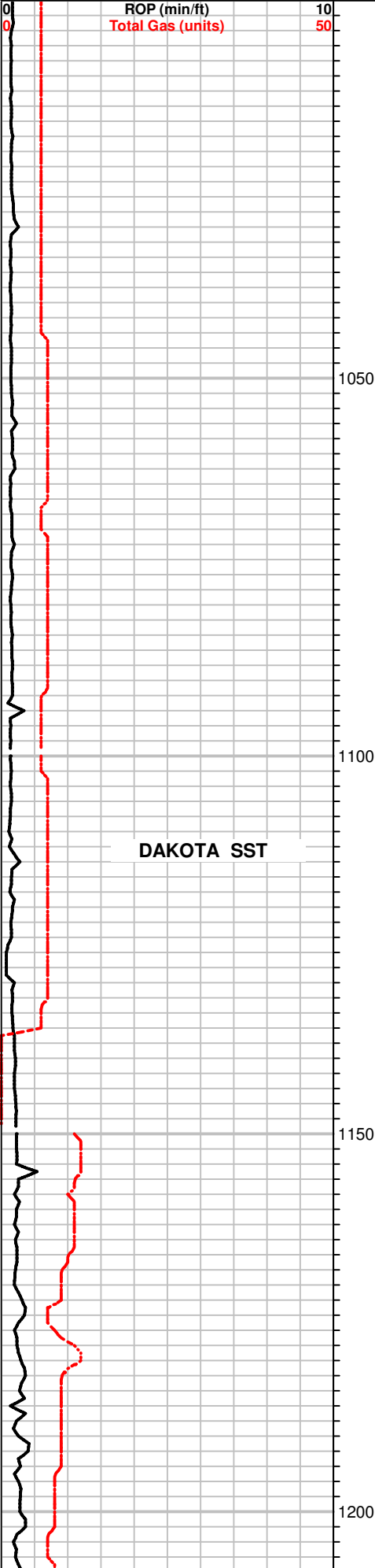
ROP (min/ft)

Total Gas (units)

10

50

0
0



GEO ON LOCATION

CLOSED SAMPLE BOX. GAS
DETRACTOR NOW
WORKING

7:00AM DEPTHS

5-6-17: MIRU, SPUD, SET
SURF @ 386'

5-7-17: 386'

5-8-17: 1754'

5-9-17: 2930'

5-10-17: 3470', DST #1

5-11-17: 3586, CFS

5-12-17: 3918

5-13-17: 4295'

5-14-17: 4584'

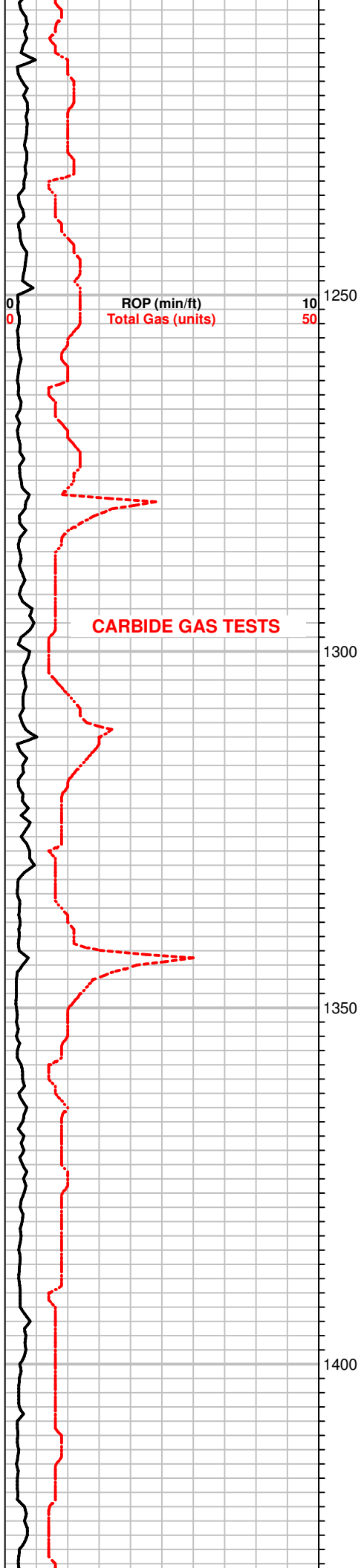
5-15-17: 4710', RUNNING CSG

DEVIATION SURVEYS:

.75 @ 368

.25 @ 3586

1.5 @ 4710

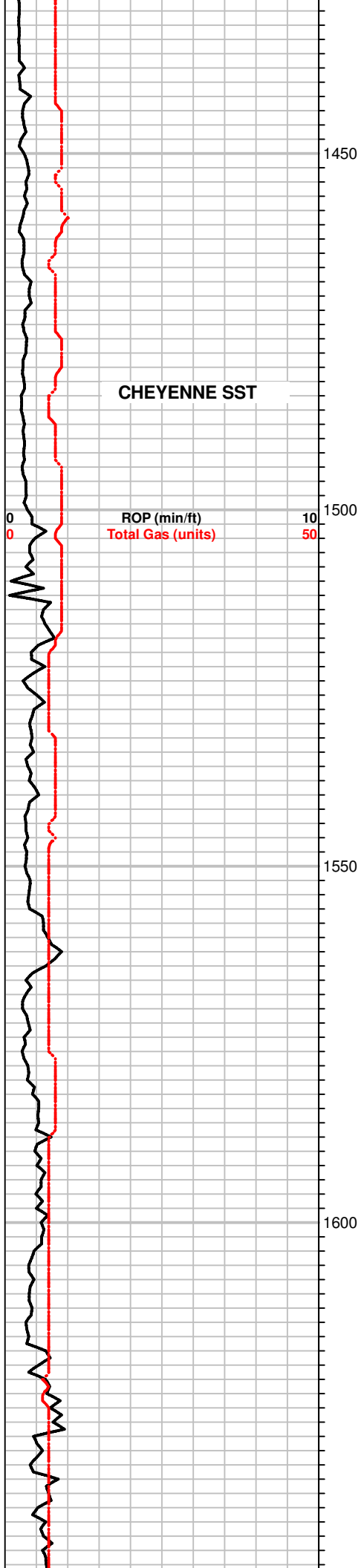


1376: CRM-TAN SILT TO V. FN SST, SOME SUBRND, SLI. MICA, SLI. GLAUC, FRIAB TO TITE; TR. PYRITIC FROSTED SST, TITE W/ CALC. CEM

SHALLOW SAMPLES OF VARYING VALUE. LITTLE MUD IN HOLE. 1 SAMPLE PER KELLY.

1407: SILTSTN, GRY W/ SLI. CALC. CEM; GRY SHALE

1439: GRY SHALE



1470: GRY SHALE

1502: SST, CLR, FN GRND, WELL SORT,
SBANG - SUBRD, FRIAB W/ GD. POR; NS

1533: GRY CLAY, TR. PYRIT

1564: TR. CRM SOFT LIME; MOSTLY GRY
CLAY, SOME SILTY.

1596: LT. GRN LIME, SOFT-HD; RED CLAYS.

NO SAMPLE

1659: TR. CSE QTZ GRNS; SOFT LT. GRY
SHALE.

1650

1691: REDBEDS

1700

1723: AS ABOVE & TR. CSE QTZ.

1754: MIXED

1750

ROP (min/ft)
Total Gas (units)

0
0

10
50

MUD AT 1754:
WT. 9.2
VIS. 33
CHLOR: 100
LCM: 3#

1786: REDBEDS

1818: INC. ANHYDRITE; SHALE AS ABOVE.

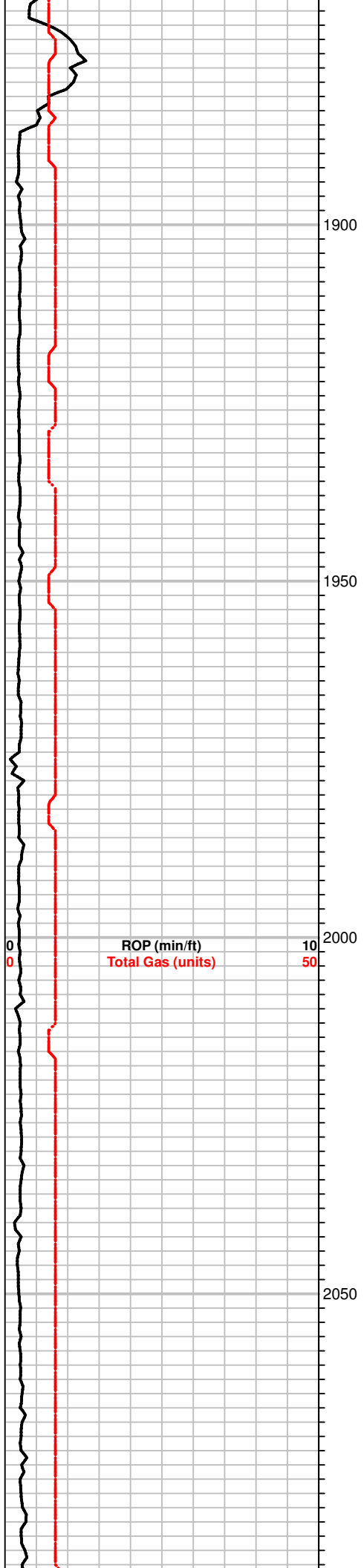
- BLAINE ANHY. -
1801 (+1453)

1800

1849: AS ABOVE

1850

1881: FLOOD CRM & ORANGE ANHYDRITE;
RED & VARY COL. SHALE.



1912: CRM-TAN DOL. LS, V. OOLITIC, PR-FR
 INTEROOL. POR, NS

1944: REDBEDS

1976: AS ABOVE

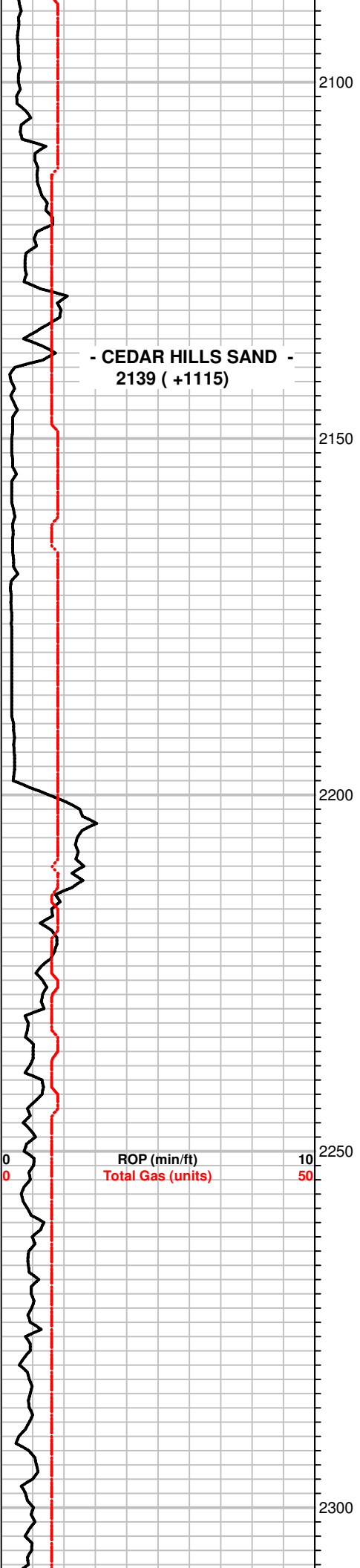
2007: REDBEDS

2039: REDBEDS, ANHYDRITE, TR. PYRITE

2077: TR. SST, FN-MED, CLR, SBANG-SBRD,
 TITE; PYRITE; REDBEDS

2102: TR. CSE QTZ GRNS, SUBRD; TR. SST
 TITE; REDBEDS

2134: REDBEDS



- CEDAR HILLS SAND -
2139 (+1115)

2167: CRM ANHYDRITE; VARY COL. SHALE

2199: CRM-TAN DOLOMITIC; ANHYDRITE;
VARY COL. SHALE, TR. BLK

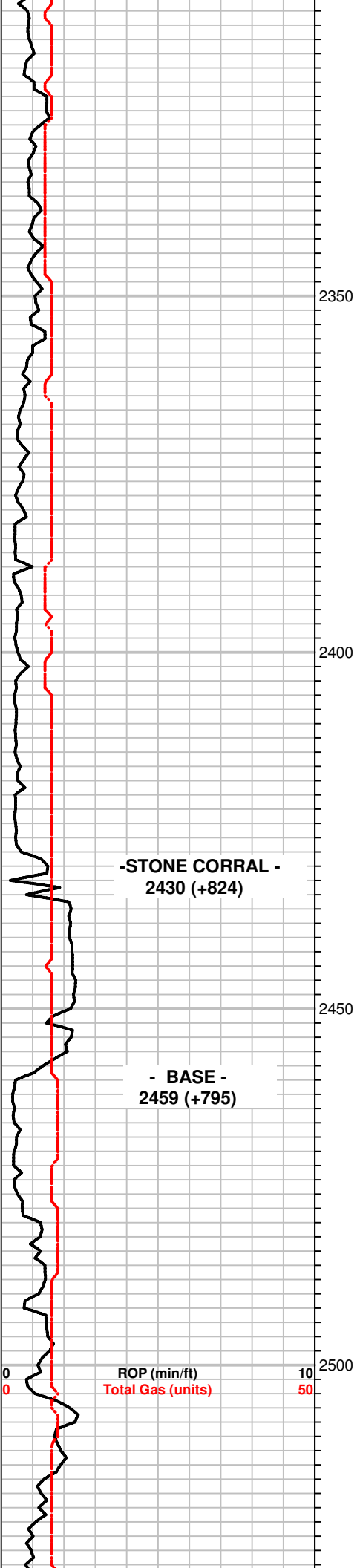
VERY POOR SAMPLES

2230: TRASH

2261: SHALE, RED.

2293: REDBEDS; TR. CSE QTZ GRNS.

2325: MIXED



2388: REDBEDS; TR. TITE SST.

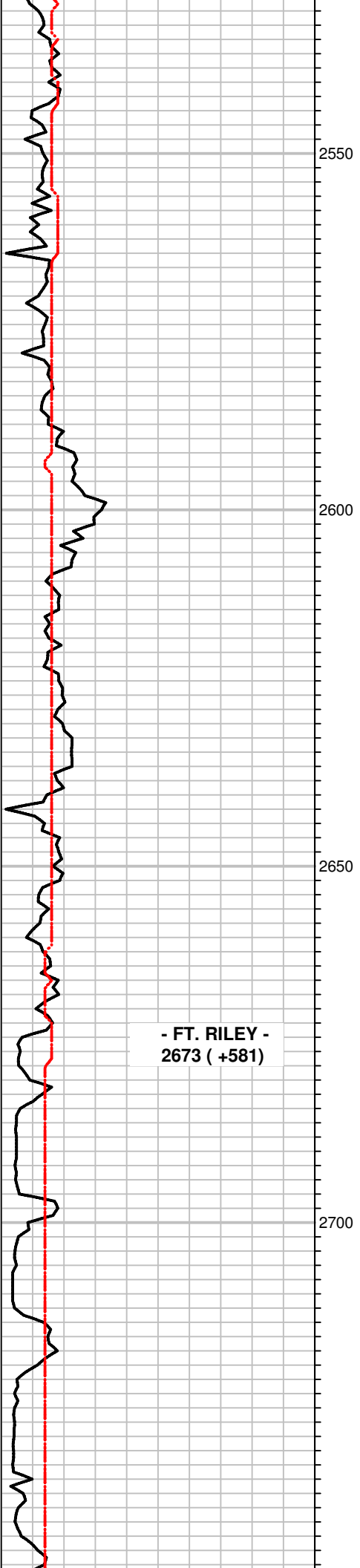
2419: REDBEDS; TR. PYRITE

2451: AS ABOVE

2482: BIG INC. CRM-GRY ANHYDRITE

2513: TR. LS, BRN, FXLN, FOSS, PR. XLN.
POR;

2545: LS, BRN, FXLN, SLI. CALCITIC, PR. XLN.
POR.



2576: LT - MED GRY SHALE.

2608: RED SILTY & GRY SHALE

2638: LT. GRY SILTSTONE, TITE.

2661: AS ABOVE.

2703: LT. GRY SILTSTONE, GD. POR;
REDBEDS

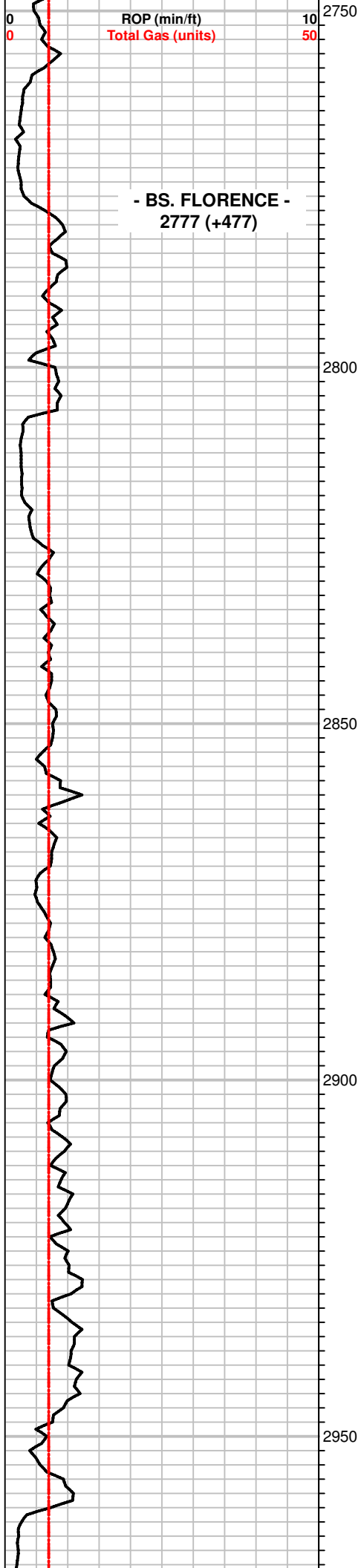
**- FT. RILEY -
2673 (+581)**

AS ABOVE.

2765: TR. GRY SILTSTONE; MOSTLY
REDBEDS

POOR SAMPLES. LITTLE
MUD IN HOLE.

FLUID LEVEL DROPPED IN
SAMPLE BOX WITH GAS
EXTRACTOR BEING TOO
HIGH. NOT WORKING HERE.



2797: AS ABOVE.

2829: CRM DOLOMITE, FXLN, PR-FR. XLN. POR

POOR SAMPLES - LITTLE MUD IN HOLE.

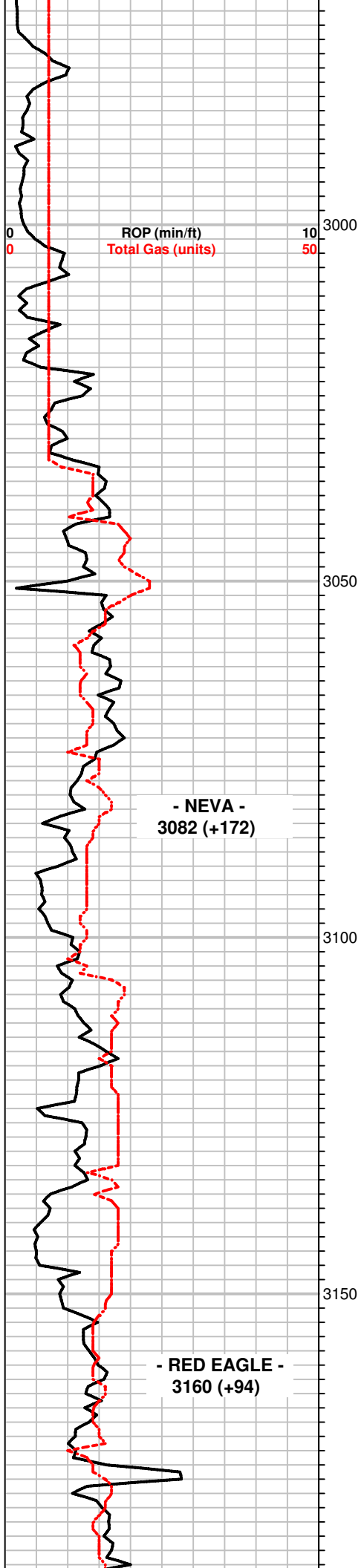
2860: DOLOMITE AS ABOVE; SOME CRM/ LT. GRN SILTSTONE W/ PR-GD. POR.

2892: SILTSTONE, CRM-GRY, SOME CALC. CEM, PR-GD. POR.

2924: NO SAMPLE

2954: NEW LT. GRY SHALE.

2986: SILTSTONE, CRM - LT. GRY, GD. POR.



SAMPLE MIXED

SAMPLE MIXED

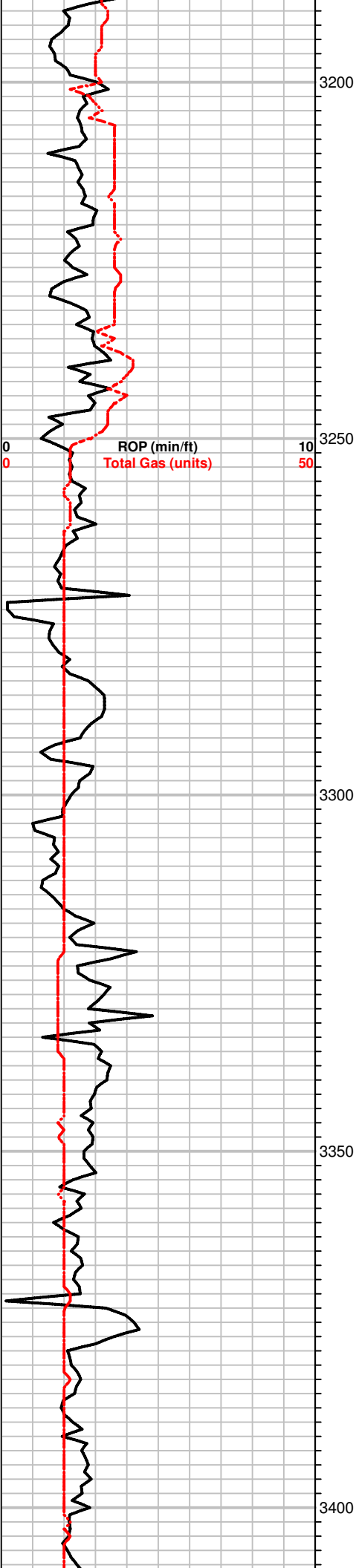
MUD CHECK AT 3020:
WT: 9.8
VIS: 31
CHLOR: 63,000
LCM: TR.

LOWERED GAS DETECTOR
BACK DOWN INTO MUD.
WORKING AGAIN.

TITE CONNECTION AT 3049.
WORKING PIPE UP AND
DOWN.

3143: TR. LS, BRN, VF-FN XLN, PR. POR.

3207: TR. LS, TAN- LT. BRN, VF- FN XLN; TR.
BRN CHERT.



LS, BRN, VFXLN, DSE TO V. LMY, TAN GRANULAR SILTSTONE; NS

MUD UP @ 3228
 LOWERED GAS
 BACKGROUND

LS, AS ABOVE.

STARTED 10 FT. SAMPLES AT
 3300.

SHALE, GRY, GRN

GRY VERY LIMY SILTSTONE

TR. LS CRM-TAN, FXLN, V. FOSS. PR-FR. XLN. POR.; NS

MOSTLY GRY VERY LMY SILTSTONE.

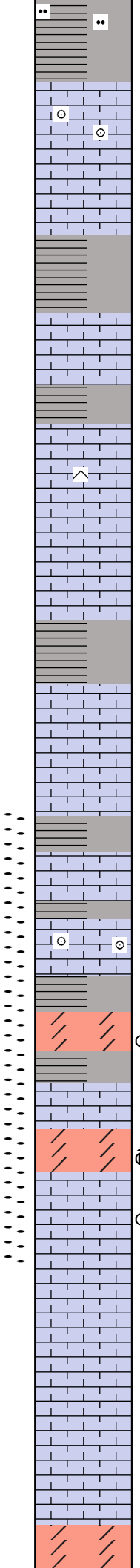
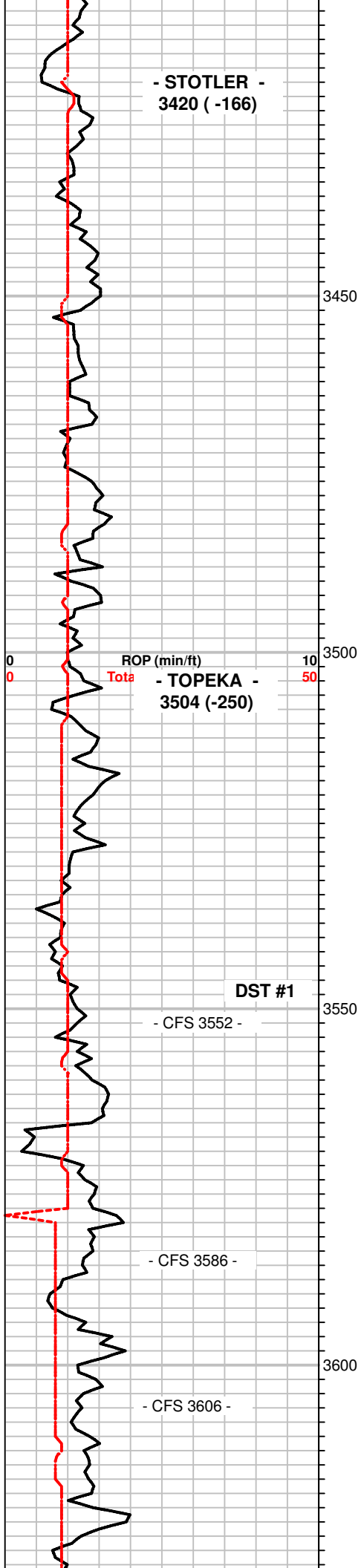
LS, CRM-TAN, FXLN, CALCITTE FILL IN LARGE VUGS/ MIOLDS, PR-FR XLN. POR

CARBIDE TEST 3365 - V.
 MINOR KICK - NOT
 WORKING

VERY LMY CRM SILTSTONE

SHALE, GRY; TR. LS, TAN, FXLN, V. OOLITIC - FOSS.

GRY-GRN LMY SILTSTONE TO GRY SILTY SHALE.



INC. GRY SHALE

TR. TAN V. OOLITIC LS, PR. POR TO TAN V. LMY SILTSTONE; NS

MUCH GRY-TAN V. LMY SILTSTONE.

GRY-BLK SHALE; TR. PYRITE.

LS, TAN, FXLN, V. FOSS, PR-FR XLN POR; NS

LS AS ABV & TAN LMY SILTSTONE.

LT. GRY, VFXLN LS, SLI. CHERTY, DSE

LS, TAN-BRN, VFXLN, DSE.

SHALE & TR.LS, CRM-TAN, FXLN, PR-FR. XLN. POR; NS

LS, TAN-BRN FXLN, FOSS, PR. POR, TR. CHALKY; NS

SHALE GRY & DK. GRY FOSS. LS, PR. POR

3552 CIRC: LS, CRM-TAN, FXLN, V. FOSS, FR. XLN. POR; TR. LS, V. OOLITIC, PR. POR; NS, NO FLUOR.

70: TR. DOL, CRM, GD XLN POR & TR PPT POR, VSSFO, LT. BRN SAT STN, TR, SPTY FLUOR

TR. DOL, CRM, GD XLN & PPT-VUG POR, S-FSFO, PART - EVEN LT BRN SAT STN, TR. SPTY FLUOR, FR. ODOR

TR. DOL AS ABOVE, .

06: LS, CRM-TAN, FXLN, SLI. FOSS, FR. XLN & PR. PPT. POR; NS

CIRC: TRASH: RED BEDS; DID HAVE A TR OF DOL FROM ABOVE W/ GD. POR. & SFO.

LS, BRN, FXLN, V. FOSS, PR. XLN. POR; NS; MOSTLY TRASH

CIRC: POOR SAMPS: DO HAVE TR. DOL TAN

GAS DETECTOR NOT WORKING HERE.

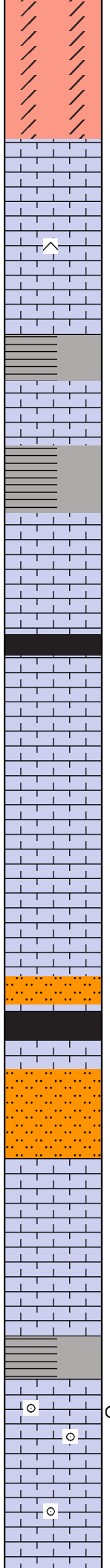
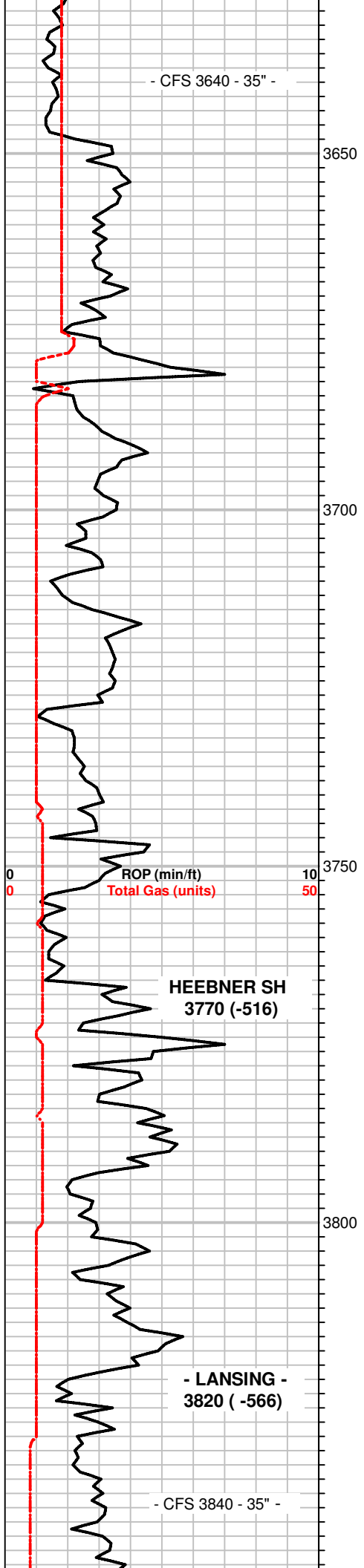
MUD CHECK AT 3516:
 WT: 8.8
 VIS: 52
 FILTRATE: 6.4
 CHLOR: 3,000
 LCM: 3#

RAN 30 STAND SHORT TRIP BEFORE TEST.
PIPE STRAP AT 3586 = 3.72'
 SHORT TO BOARD IS SOMEWHAT QUESTIONABLE DUE TO WEATHER CONDITIONS.

DST #1: 3522-3586
TIMES: 30-30-30-45
IF: BLOW BUILT TO 3"
FF: BLOW BUILT TO 1.25"
REC: 45' MUD W/ OIL SPOTS
124' WTR CUT MUD (20%W)
CHLOR 19,000
SYSTEM CHLOR 3,000
(RW .49 @ 52 F)
IFP: 22-70, FFP: 76-93#
SIP: 889-855#
TEMP: 112

EXCHANGED GAS DETECTOR AGITATOR AT 3586. CARBIDE TEST - NO KICK - STILL NOT WORKING

SAMPLES POOR HERE HAD A LOT OF RAIN AFFECTING MUD
 VIS. 41. MIXING MUD



35" CIRC: FLOOD LT. BRN, FXLN, SUCROSIC DOL. LS
GD. XLN POR AND TR. LS, CRM, FOSS, GD XLN. POR; NS, NO FLUOR.

60: FLOOD LT. BRN, FXLN, SUCROSIC DOL. LS
GD. XLN. POR, NS, NO FLUOR.

70: LS, TAN, FXLN AS ABV W/ MUCH CALCITE FILLIN PR-FR. XLN. POR; NS

LS, TAN, FXLN, SUCROSIC, SLI. CHTY, PR-FR XLN. POR; NS

SHALE & TR. LS, BRN, VFXLN, DSE.

LS, TAN, FXLN, V. FOSS, PR. XLN. POR; NS

LS, BRN, VF-FXLN, DSE, TR. SILTY.

LS, SOFT, CRM CHALKY.

LS, TAN, FXLN, FOSS, PR. POR TO LS, CRM - LT. GRN, SOFT CHALKY

LS, CRM-GRY, SOFT CHALKY AND GRY LMY SILTSTONE; SLI. INC. BLK SHALE..

LT. GRY LMY SILTSTONE

LS, CRM, FLXN, SLI. FOSS, PR-FR. XLN. POR; NS

LS, CRM-TAN, FXLN, SLI. FOSS, PR- TR. FR. XLN. POR; SHALE GRY; NS

TR, CRM, FXLN, FAINTLY OOLITIC, FR. XLN POR, 1 SM. PC W/ TR. FO & SPTY SAT. STN; NO ODOR.

35" CIRC: LS, AS ABV, CRM-GRY, FXLN, FAINTLY OOLITIC, PR-FR. XLN. POR; NS

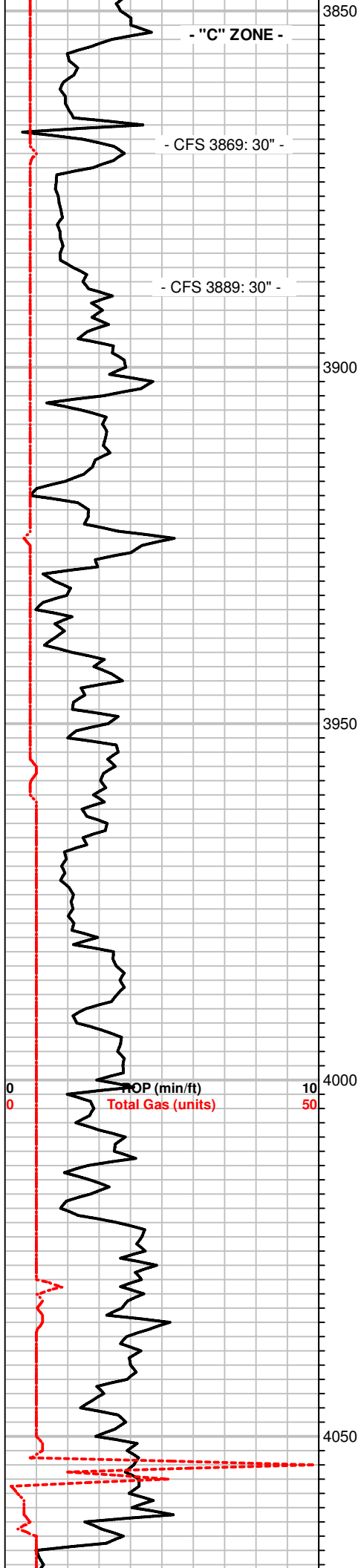
SOFT GRY LMY SHALE

FOUND GAS DETECTOR HOSE UNHOOKED. MAY HAVE HAPPENED WHEN BLOWING OUT LINES ??

LIGHTER TEST - MINOR KICK - STILL NOT WORKING VERY WELL. COULD NOT DETERMINE PROBLEM

GETTING V. LITTLE SAMPLE HERE

SAMPLES BETTER

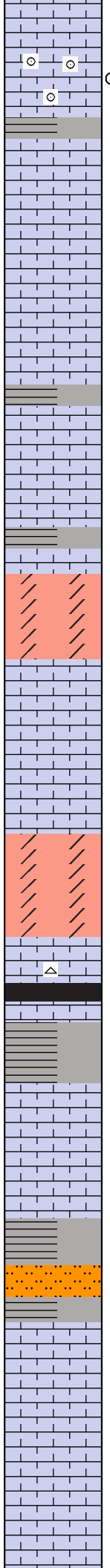


- "C" ZONE -

- CFS 3869: 30" -

- CFS 3889: 30" -

ROP (min/ft) 0 10
 Total Gas (units) 0 50



SOFT GRAY LMY SHALE.

FEW PCS LS, CRM, SLI. CHLKY, V. OOLITIC W/ GD. XLN. POR & TR. FR. INTEROOL. POR., PR. TR. DK. SPTY STN, TR. FO, NO FLUOR, GD. FLUSH CUT, NO ODOR

LS, VFXLN, HARD, W/ PR-FR. SCAT. VUG. POR NS, NO FLUOR

LS, CRM, CHLKY & LS, TAN, VFXLN, DSE; NS

LS, BRN, VF-FXLN, SLI. FOSS, PR. VIS. POR & LS, CRM CHLKY; NS

LS, CRM CHLKY TO LS, BRN, VFXLN, DSE; NS

DOL, TAN, FXLN, SUCROSIC, FR. XLN. POR; NS

LS, TAN-BRN, FXLN, DSE, SOME CRM SLI. CHLKY; NS

DOL, TAN, HARD, FXLN, SUCROSIC, PR-FR. XLN. POR; NS

LS, TAN, VFXLN, PR. POR; TR. CHERT; NS

SMALL AMT. SHALE, BLK, GRY, GRN.

LS, BRN, VFXLN, DSE TO LS, CRM CHLKY; NS

GRY - GRN SILTSTONE; SHALE, GRY

LS, TAN-BRN, XLN, SOME SLI. FOSS., MOSTLY PR - TR. FR. XLN. POR; NS

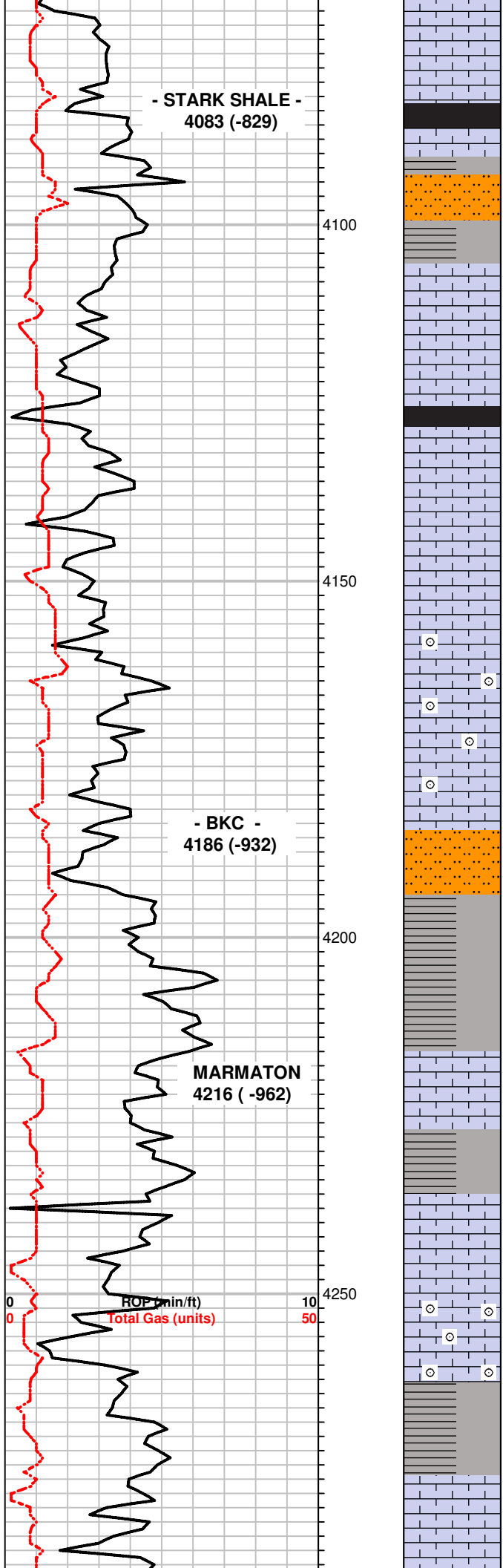
TR. CRM, DETRITAL LS & SHALE, GRY

MUD CHECK AT 4013:
 WT: 9.2
 VIS: 55
 FILTRATE: 8.8
 CHLOR: 3,800
 LCM: 2#

GAS CALIBRATION

TIM W/ EARTH TECH FOUND

GAS DILUTION KNOB
TURNED WIDE OPEN. ALSO
BUBBLE JAR ON AGITATOR
LOOSENEED. ADJUSTED
THESE & DETECTOR
WORKING AGAIN



LS, CRM-BRN, XLN, PR-FR XLN. POR;
CARRYING SOME CRM CHLKY LIME; NS

TR. SHALE BLK

GRY LMY SILTSTONE, SHALE, GRY

LS, CRM, SLI. CHLKY TO LS, BRN, VFXLN, SLI.
FOSS, DSE TO SOME W/ PR-FR. XLN. POR.;
NS

TR. BLK SHALE; LS, CRM SLI. CHLKY TO LS,
BRN, PR. POR; NS

LS, TAN-BRN, VF-FXLN, PR. POR TO SOME,
CRM, SLI. CHLKY; NS

LS, BRN, FXLN, V. OOLITIC / FOSS, PR. POR;
NS

GRY, LMY SILTSTONE, TITE TO FAIRLY
FRIABLE; AND GRY SHALE.

LS, BRN, VF-FXLN, DSE - PR. POR; NS

LS, AS ABV. SOME SLI. FOSS, SLI.
WEATHERED; NS

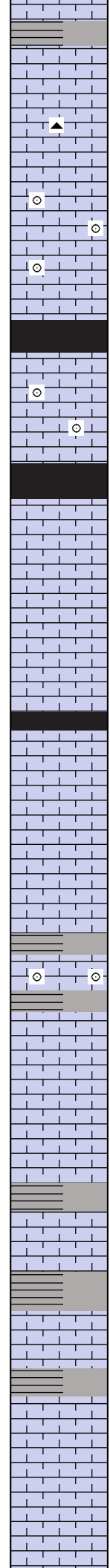
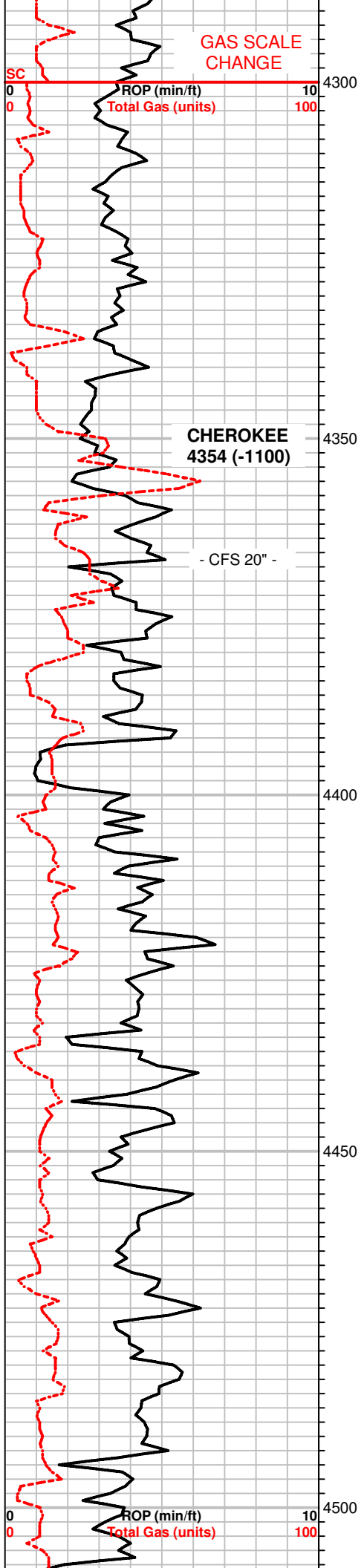
GRY SHALE AND GRY LMY SILTSTONE.

LS, BRN, VFXLN, SLI. FOSS, PR. POR; SHALE,
GRY; NS

LS, BRN, V. OOLITIC / FOSS., PR - TR. FR.
XLN. POR & TR. INTER-OOLITIC PPT POR.;
NS

CARRYING LS AS ABV.; NS

LS, BRN, V. FOSS. / FRAGMENTAL, PR-FR.
XLN. POR; NS



LS, BRN, VF-FXLN, SOME FOSS, PR-FR. XLN. POR; NS

SHALE, GRY; TR. BRN CHERT.

LS, TAN-BRN, V. OOLITIC / FOSS, W/ PR-FR. XLN. POR; NS

TR. BLK SHALE

LS, BRN, SOME V. OOLITIC / FOSS, PR. VIS. POR; NS

SHALE, BLK.

LS, BRN, VF-FXLN, SOME FOSS, PR. VIS. POR SHALE, GRY; NS

TR. BLK SHALE.

POOR SAMPLES: HAD SOME SOFT CRM LIME; NS

LS, BRN, VFXLN, PR. POR. TO SOME WEATHERED SLI. CHLKY; NS

LS, BRN, V. OOLITIC / FOSS, PR. XLN. POR; NS

SHALE, GRY

LS, TAN - DK BRN, VF-FXLN, SOME FOSS, PR. VIS. POR; SOME SHALE GRY, TR. PYRITE; NS

LS, AS ABOVE; NS

GAS SCALE CHANGE

MUD CHECK AT 4346:
 WT: 9.3
 VIS: 56
 FILTRATE: 7.2
 CHLOR: 4,000
 LCM: 3#

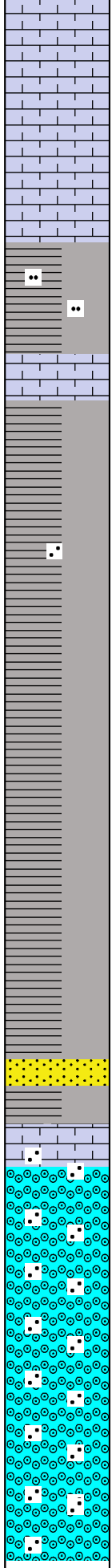
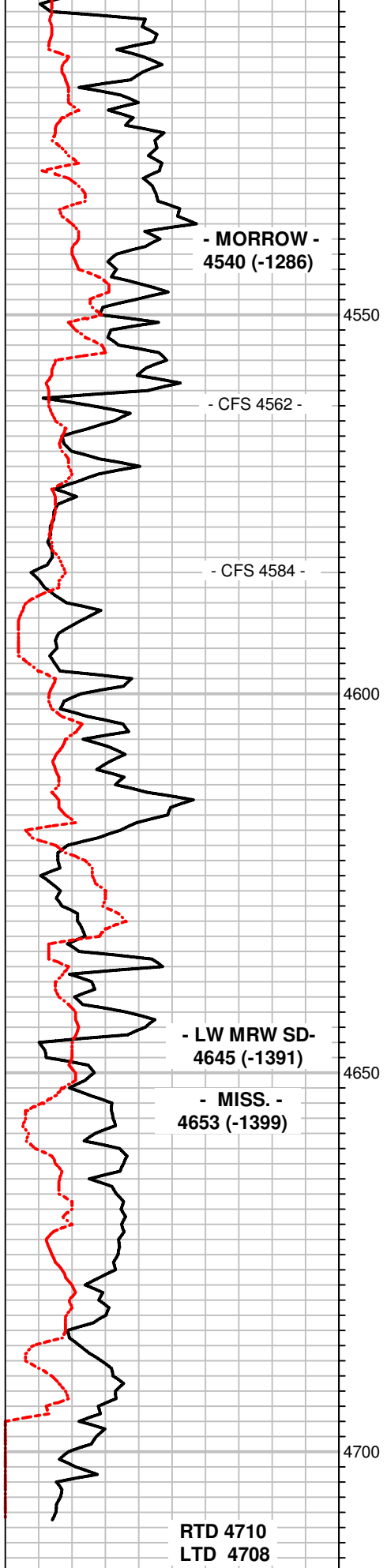
15-20 UNIT KICK.

SAMPLE QUALITY GETTING WORSE.

52 UNIT GAS KICK

SHORT TRIP PIPE AT 4405.

GETTING VERY LITTLE SAMPLE - ADDING MUD



LS, TAN-BRN, VF-FXLN, SOME FOSS, PR - TR. FR. XLN. POR; NS

SHALE, GRY, GRN; TR. CRM LMY SILTSTONE, FRIABLE

LS, TAN, VF-FXLN, DSE; NS

SHALE, BLACK & GRY; 1 PC SST, VF GRND, CLR, SBRD, WELL SORT, TITE; NS

SHALE, BLK, GRY, BRN; 1 PC SST AS ABV; NS

SHALE, LT-DK GRY, BLK; TR. PYRITE.

SHALE, AS ABV, PYRITE; TR. LS, DK BRN, WEATHERED LOOKING; NS

GRY-BRN LMY SILTSTONE AND SHALE GRY-BLK.

SM. AMT. CRM SST, VF GRND, CLR, FRLY WELL SORT, TITE; TAN CHERT, SHARP; NS

LS, GRY, VF-FXLN, SLI. FOSS, SLI. WEATH, PR. TR. FR. XLN. POR; NS

LS, TAN, FXLN, MICRO-OOLITIC / ARENACEOUS, PR - FR. XLN. POR; NS

LS, AS ABV; TR. SST, CRM VF GRND, CLR, TITE AS ABV; NS

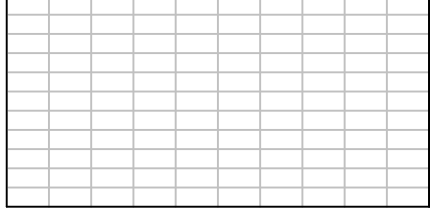
LS, CRM-TAN, FXLN, MICRO-OOLITIC / ARENACEOUS, PR-FR. XLN. POR, SOME SLI CHLKY; NS

10 UNIT GAS INCREASE IN MORROW SHALE

MUD CHECK AT 4562:
 WT: 9.2
 VIS: 54
 FILTRATE: 8.0
 CHLOR: 4,000
 LCM: 3#

GAS INCREASE

RTD 4710
 LTD 4708

				
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8101
7996

TICKET NUMBER 51781
LOCATION Oakley Ks
FOREMAN Jerry V

PO Box 884, Chanute, KS 66720
620-431-9210 or 800-467-8676

WELL TICKET & TREATMENT REPORT
CEMENT

Work # 81024 Ks

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY	
5-6-17	7251	Pearce Trust # 1-32	32	135	38w	Wallace	
CUSTOMER		Mailing Address		TRUCK #	DRIVER	TRUCK #	DRIVER
Red Oak		7701 E. Kellogg Drive, Ste. 710		737	Cory D		
CITY		STATE	ZIP CODE	566	Steve D		
Michita		KS	67207-1738	639			

JOB TYPE Surface HOLE SIZE 12 1/4 HOLE DEPTH 370 CASING SIZE & WEIGHT 8 5/8 23.4
 CASING DEPTH 367 DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT 15.2 SLURRY VOL 1.24 WATER gal/sk _____ CEMENT LEFT in CASING 20'
 DISPLACEMENT 22 bbl DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safely mixing rig upon STP cont on 1.5 break circulation with
rig free mix 2.50 sks surface blend II; shutdown release plug well up & displace
with 22 bbl fresh water & shut in found cement in cellar

Cement was in the
cellar

Thank you
Jerry & crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE0471	1	PUMP CHARGE	1050.00	1050.00
CE0002	40	MILEAGE	7.15	286.00
CE0710	11.75	ten mileage delivery	1.75	822.80
CS871	250 sks	Surface blend II	23.00	5750.00
CP8228	1	8 5/8 plug	165.00	165.00
CP8556	2	8 5/8 cels (1.2 r)	110.00	220.00
			Subtotal	8293.80
			-35%	2902.83
			Subtotal	5390.97
			SALES TAX	259.20
			ESTIMATED TOTAL	5650.17

RAVIN 3737 AUTHORIZATION [Signature] TITLE _____ DATE _____

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.



PRESSURE PUMPING

PO BOX 804, Chanute, KS 66705
620-431-9210 or 800-467-8676

8056

TICKET NUMBER 51785
LOCATION Oakley KS
FOREMAN Jerry V
Walt D

WELD TICKET & TREATMENT REPORT
CEMENT **Invoice #810276** KS

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
5-15-17	7251	Pearce Trust #1-32	32	13s	38w	Wallace

CUSTOMER <u>Red Oak</u>		WALLACE 3/45 E & S into		TRUCK #	DRIVER	TRUCK #	DRIVER
MAILING ADDRESS <u>7701 E. Kellogg Dr., Ste. 110</u>				<u>731</u>	<u>Cory D</u>		
CITY <u>Wichita</u>		STATE <u>KS</u>	ZIP CODE <u>67201-1738</u>	<u>5166</u>	<u>Steve O</u>		
				<u>5299127</u>	<u>Walt D</u>		
				<u>assist</u>	<u>Seth O</u>		

JOB TYPE <u>long string</u>	HOLE SIZE <u>7 7/8</u>	HOLE DEPTH <u>4710</u>	CASING SIZE & WEIGHT <u>5 1/2 15.5</u>
CASING DEPTH <u>254</u>	DRILL PIPE	TUBING	OTHER
SLURRY WEIGHT <u>11.2/14.2</u>	SLURRY VOL	WATER gal/sk	CEMENT LEFT in CASING <u>42'</u>
DISPLACEMENT <u>58 3/4 bbl</u>	DISPLACEMENT PSI	MIX PSI	RATE

REMARKS: Safety meeting & rig up on STP run 50 sks plug @ 4800 run float equip. Centralizers on 2, 5, 7, 9, 11, 13 basket on 3 run casing to bottom pump ball down & circ vis @ 37 pump 5 bbl H₂O, mud flush, 5 bbl H₂O spacer mix 370 sacks 60/40 8% 2 #90 seal lead & tail in with 100 sks com class A shut down release plug clean pump & lines & place with 60 1/2 bbl final left 600 # plug loaded @ 1100 # & release & back & float held

Cement circulated

Thank you
Jerry & crew

30 sks Patrick

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE 0453	1	PUMP CHARGE	2800.00	2800.00
CE 0002	40	MILEAGE	7.15	286.00
CE 0710	24.05	ton mileage delivery	1.75	1683.50
CC 5800A	100 sks	com class A	20.00	2000.00
CC 5831	450 sks	liteblend VII (60/40 8%)	17.50	7875.00
CC 6075	2.25 #	fl seal	3.00	675.00
CC 6125	12500 500 gal	mud flush	.65	325.00
CP 8485	1	5 1/2 APU float shoe	585.00	585.00
CP 8254	1	5 1/2 latch down assy	400.00	400.00
CP 8554	6	5 1/2 centralizers	81.00	486.00
CP 8629	1	5 1/2 basket	385.00	385.00
			subtotal	17500.50
			-358 disc.	6125.18
			subtotal	11,375.33
			SALES TAX	537.89
			ESTIMATED TOTAL	11913.21

AUTHORIZATION [Signature] TITLE _____ DATE _____

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.