KOLAR Document ID: 1358448

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 # 34318
Name: BEREXCO LLC
Address 1: 2020 N. BRAMBLEWOOD
Address 2:
City: WICHITA State: KS Zip: 67206 + 1094
Contact Person: Brett Blazer
Phone: (316) 265-3311
CONTRACTOR: License # 34317
Name: BEREDCO LLC
Wellsite Geologist: Bryan Bynog
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 #:

03/08/2017	03/23/2017	04/24/2017
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No.: 15-081-22155-00-00
Spot Description:
NW - SE - SE - SE Sec. 34 Twp. 28 S. R. 33 ☐ East ☑ West
540 Feet from ☐ North / ☑ South Line of Section
335 Feet from ☑ East / ☐ West Line of Section
Footages Calculated from Nearest Outside Section Corner:
☐ NE ☐ NW ☑ SE ☐ SW
GPS Location: Lat: *(e.g. xx.xxxxx)* , Long: *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Haskell
Lease Name: DENNIS UNIT Well #: 1-34
Field Name:
Producing Formation: Morrow
Elevation: Ground: 2956 Kelly Bushing: 2964
Total Vertical Depth: 5600 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 1692 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: 15400 ppm Fluid volume: 1080 bbls
Dewatering method used: Evaporated
Location of fluid disposal if hauled offsite:
Operator Name:
Lease Name: License #:
Quarter Sec. Twp. S. R. ☐ East ☐ West
County: Permit #:

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

Submitted Electronically

KCC Office Use ONLY
☑ **Confidentiality Requested**
Date: 06/28/2017
☑ **Confidential Release Date:** 06/28/2019
☑ **Wireline Log Received** ☐ **Drill Stem Tests Received**
☑ **Geologist Report / Mud Logs Received**
☐ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** Karen Ritter **Date:** 06/29/2017

Operator Name: BEREXCO LLC Lease Name: DENNIS UNIT Well #: 1-34

Sec. 34 Twp. 28 S. R. 33 ☐ East ☑ West County: Haskell

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 *(Attach Additional Sheets)*	☑ Yes	☐ No
Samples Sent to Geological Survey	☑ Yes	☐ No
Cores Taken	☐ Yes	☑ No
Electric Log Run	☑ Yes	☐ No
Geologist Report / Mud Logs	☐ Yes	☐ No

List All E. Logs Run:

Neutron-Density
Resistivity
Microlog

☑ Log Formation (Top), Depth and Datum ☐ Sample

Name	Top	Datum
Base Heebner	4104	-1140
Lansing	4149	-1185
Morrow	5259	-2295
Mississippi	5389	-2425

CASING RECORD ☑ New ☐ Used

Report all strings set-conductor, surface, intermediate, production, etc.

Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12.25	8.625	23	1692	Class A/POZ	750	3% CC, 1/4# flakes
Production	7.875	5.5	15.5	5592	POZ/ASC	735	1/4# flakes, 10% salt, 6# gilsonite, 1/4%

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
☐ Perforate ☐ Protect Casing ☐ Plug Back TD ☐ Plug Off Zone	-			
	-			

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: 04/25/2017

Producing Method: ☐ Flowing ☑ Pumping ☐ Gas Lift ☐ Other *(Explain)*

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	20	0	42		

DISPOSITION OF GAS: ☐ Vented ☐ Sold ☐ Used on Lease *(If vented, Submit ACO-18.)*

METHOD OF COMPLETION: ☐ Open Hole ☑ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*

PRODUCTION INTERVAL:

Top	Bottom
5374-5387	

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

TUBING RECORD: Size: 2.875 Set At: 5400 Packer At:

Mail to: KCC - Conservation Division, 266 N. Main, Suite 220, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	BEREXCO LLC
Well Name	DENNIS UNIT 1-34
Doc ID	1358448

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
4	5374-5387	1500 gal 7.5% MCA	5374-5387
		33,208 gal gelled water and 40,000# sand	5374-5387

Form	ACO1 - Well Completion
Operator	BEREXCO LLC
Well Name	DENNIS UNIT 1-34
Doc ID	1358448

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	12.25	8.625	23	1692	Class A/POZ	750	3% CC, 1/4# flakes
Production	7.875	5.5	15.5	5592	POZ/ASC	735	1/4# flakes, 10% salt, 6# gilsonite, 1/4% defoamer 1/2% fluid loss

LITHOLOGY STRIP LOG

WellSight Systems

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

Well Name:	DENNIS UNIT #1-34		
Location:	NWSESESE Section 34 28S-33W Haskell County, Kansas		
License Number:	15-081-22155	**Region:**	Midcontinent
Spud Date:	3-8-2017	**Drilling Completed:**	3-24-2017
Surface Coordinates:	540' FSL & 335' FEL		
Bottom Hole Coordinates:			
Ground Elevation (ft):	2956	**K.B. Elevation (ft):**	2964
Logged Interval (ft):	4000 **To:** 5600	**Total Depth (ft):**	5600
Formation:	LKC, Pawnee, Fort Scott, Cherokee, Morrow, & Miss.		
Type of Drilling Fluid:	WBM		

OPERATOR

Company: Berexco, LLC.
Address: 2020 N. Bramblewood
Wichita, Kansas 67206

GEOLOGIST

Name: William B. Bynog
Company:
Address: P.O.Box 687
Pinecliffe, Co. 80471

Survey's

DEPTH	ANGLE
5385'	3/4

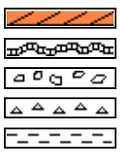
DSTs

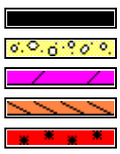
DST#1 5352-5385', DST#2 5374-5388'

Comments

PRODUCTIVE WELL, SET CASING ON MORROW SAND TEST

ROCK TYPES


Anhy
Bent
Brec
Cht
Clyst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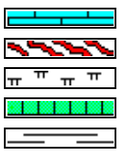
Congl
Dol
Gyp
Igne


Lmst
Meta
Mrlst
Salt
Shale


Shcol
Shgy
Sltst
Ss
Till

ACCESSORIES

MINERAL
- Anhy
- Arggrn
- Arg
- Bent
- Bit
- Brecfrag
- Calc
- Carb
- Chtdk
- Chtlt
- Dol
- Feldspar
- Ferrpel
- Ferr
- Glau
- Gyp
- Hvymin
- Kaol
- Marl
- Minxl
- Nodule
- Phos
- Pyr
- Salt
- Sandy
- Silt
- Sil
- Sulphur
- Tuff

FOSSIL
- Algae
- Amph
- Belm
- Bioclst
- Brach
- Bryozoa
- Cephal
- Coral
- Crin
- Echin
- Fish
- Foram
- Fossil
- Gastro
- Oolite
- Ostra
- Pelec
- Pellet
- Pisolite
- Plant
- Strom

STRINGER
- Anhy
- Arg
- Bent
- Coal
- Dol
- Gyp
- Ls
- Mrst
- Sltstrg
- Ssstrg

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

OTHER SYMBOLS

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

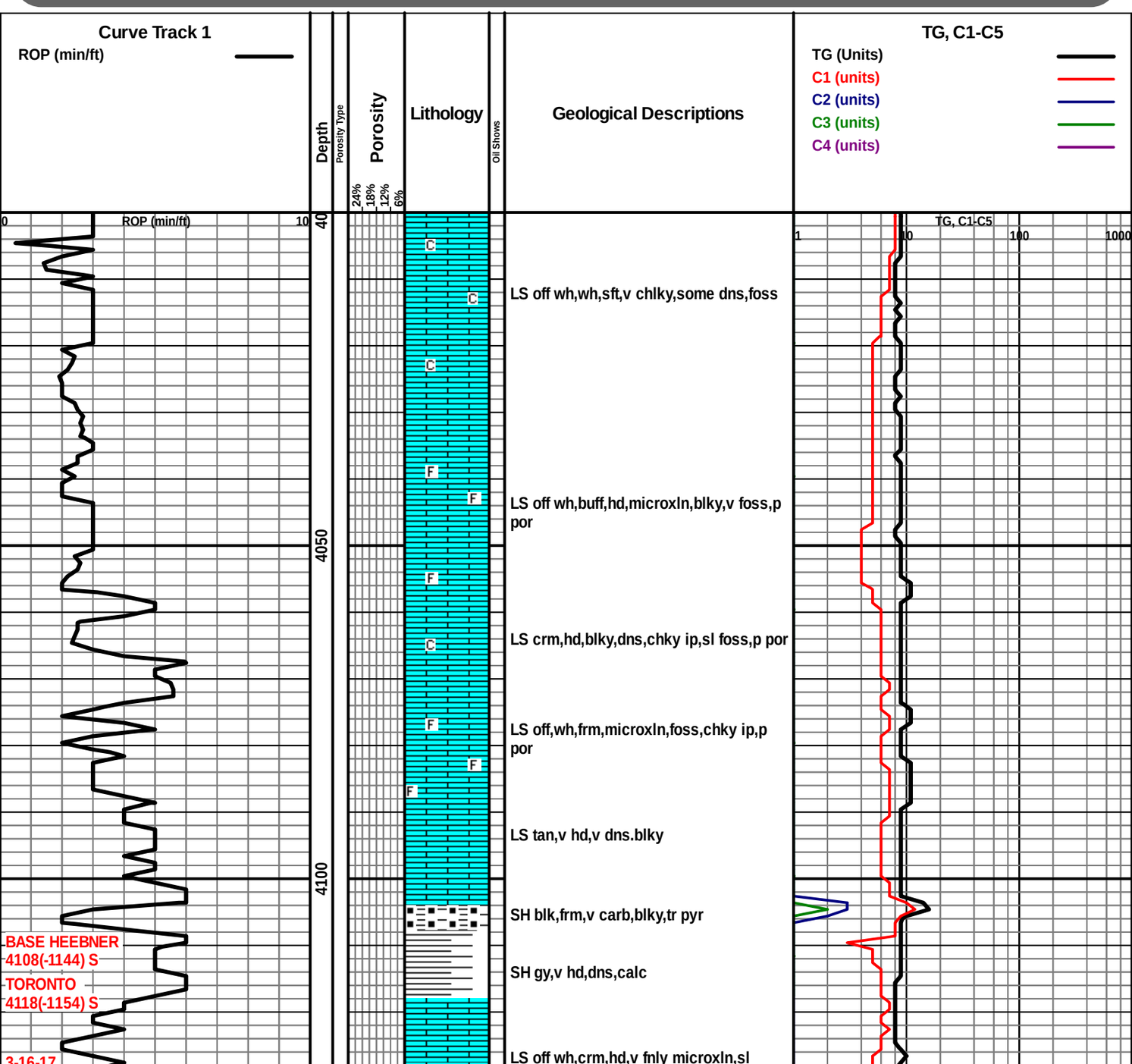
SORTING
- Well
- Moderate
- Poor

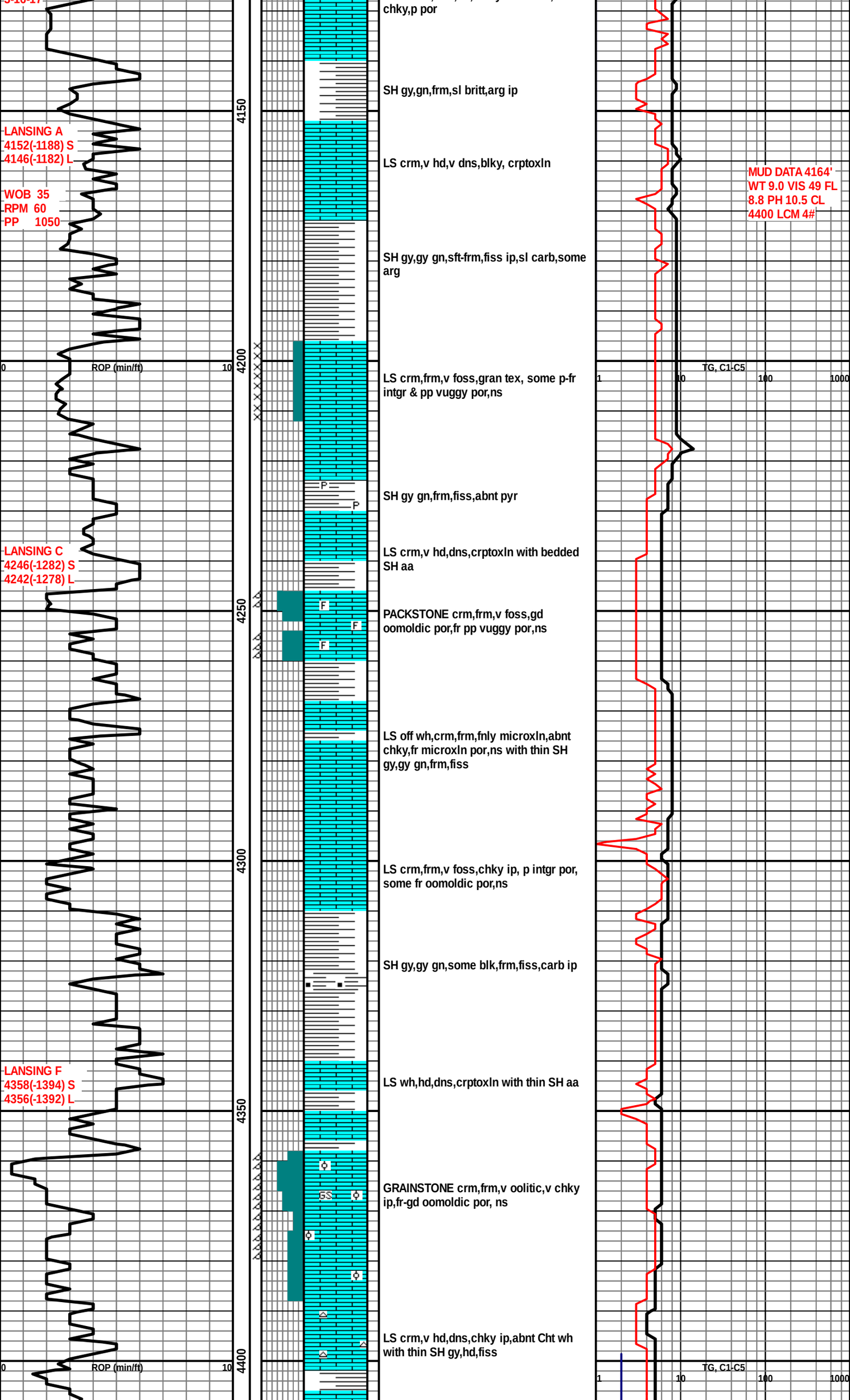
ROUNDING
- Rounded
- Subrnd
- Subang
- Angular

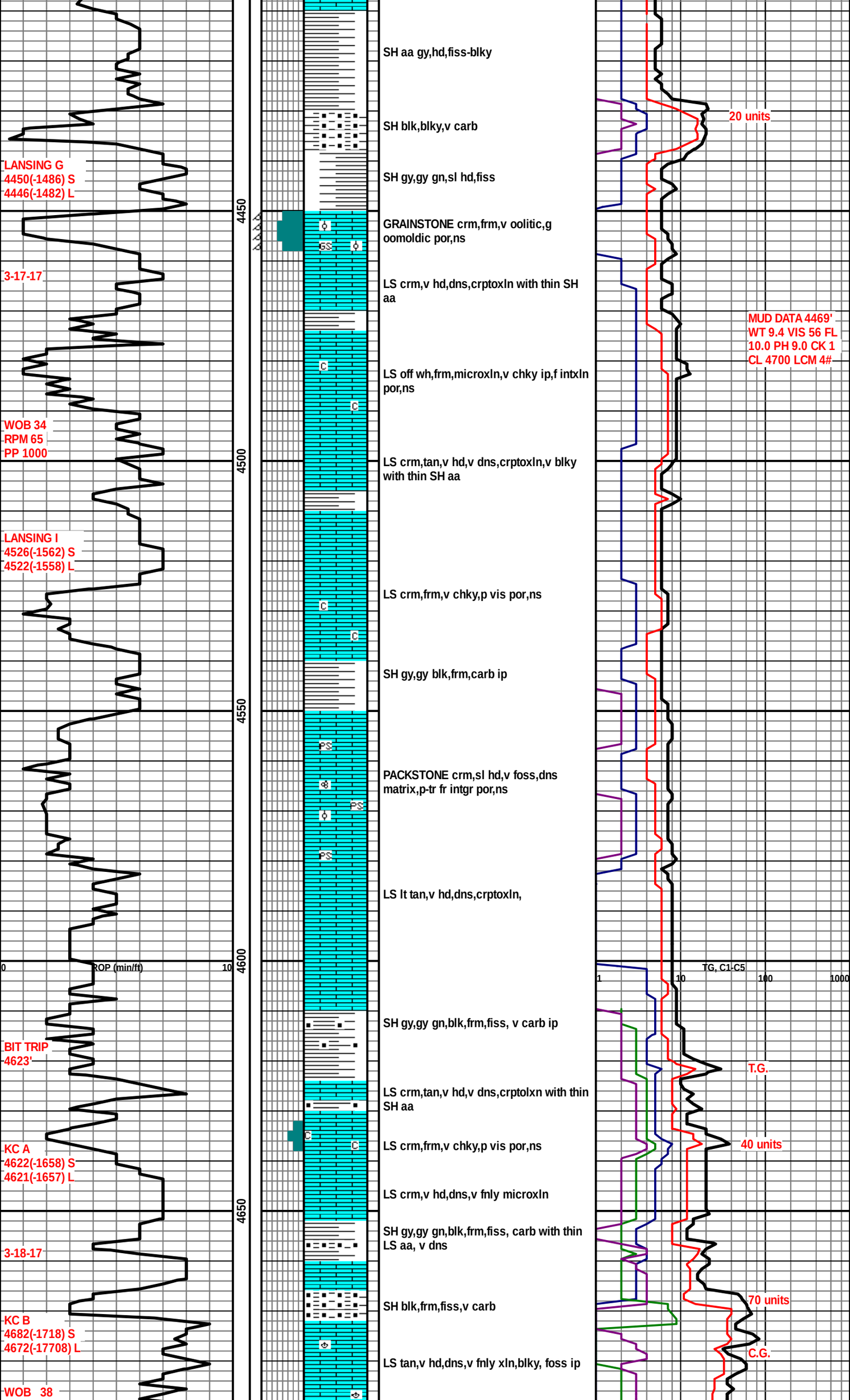
OIL SHOW
- Even
- Spotted
- Ques
- Dead

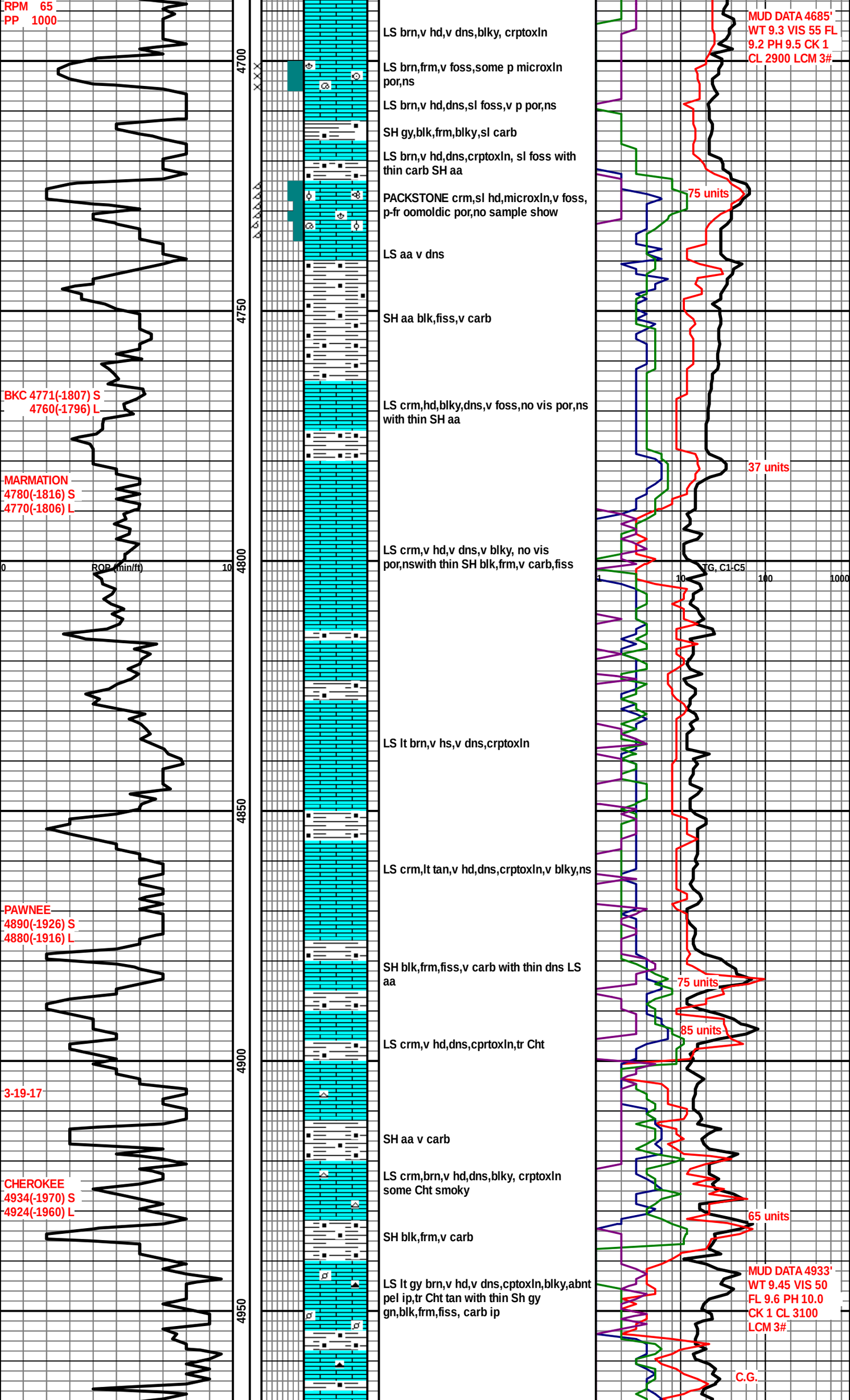
INTERVAL
- Dst
- Dst

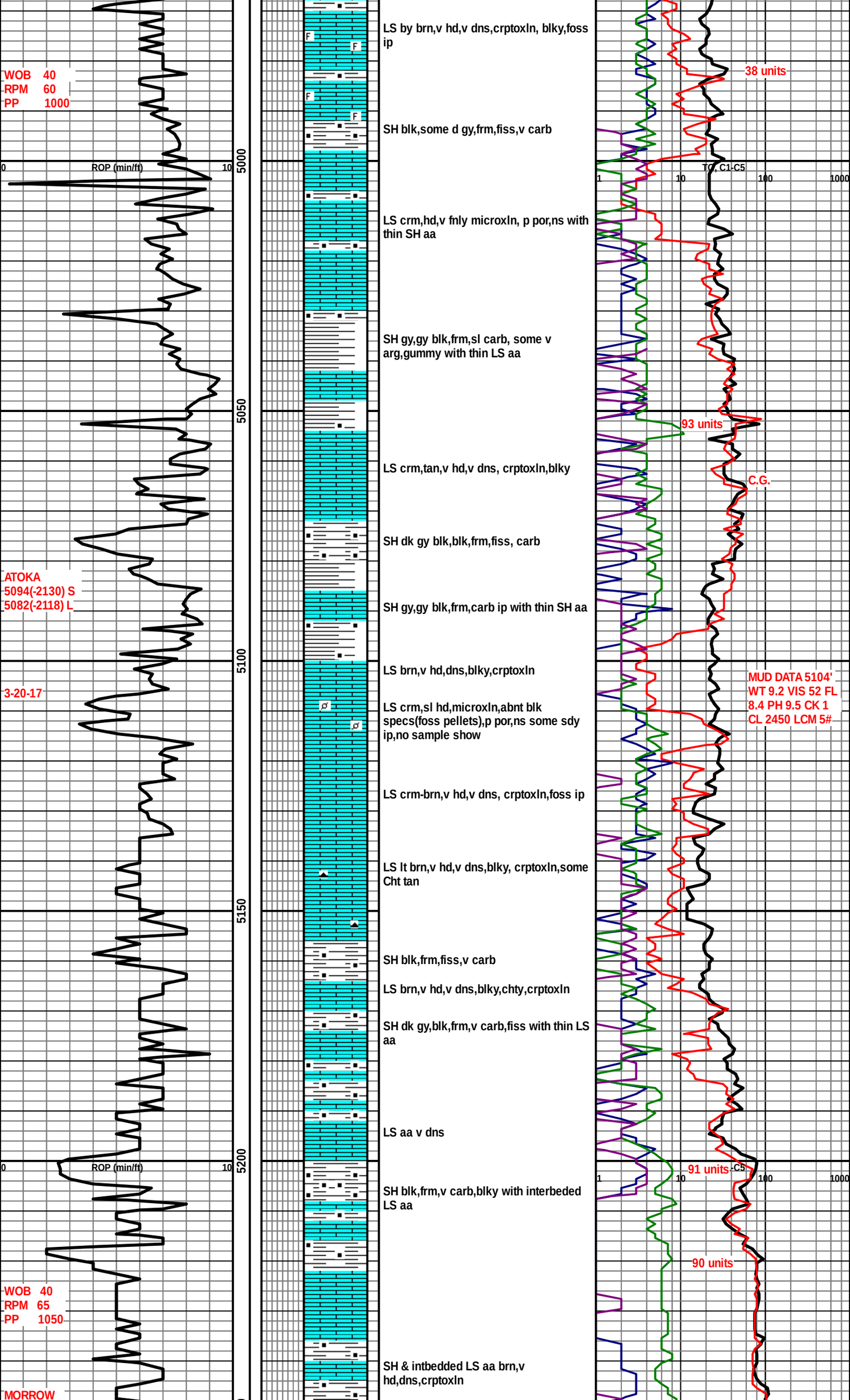
EVENT
- Rft
- Sidewall

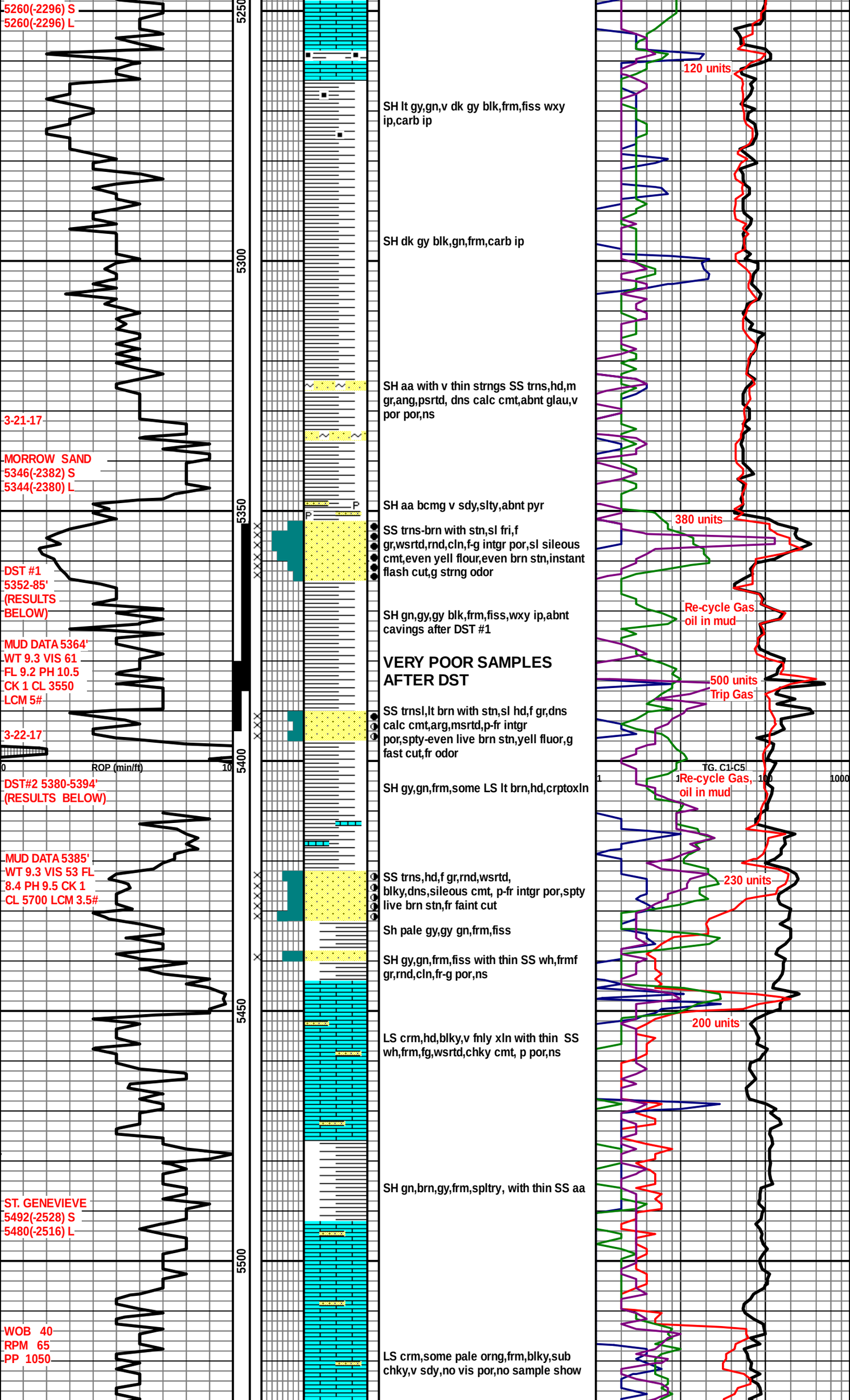


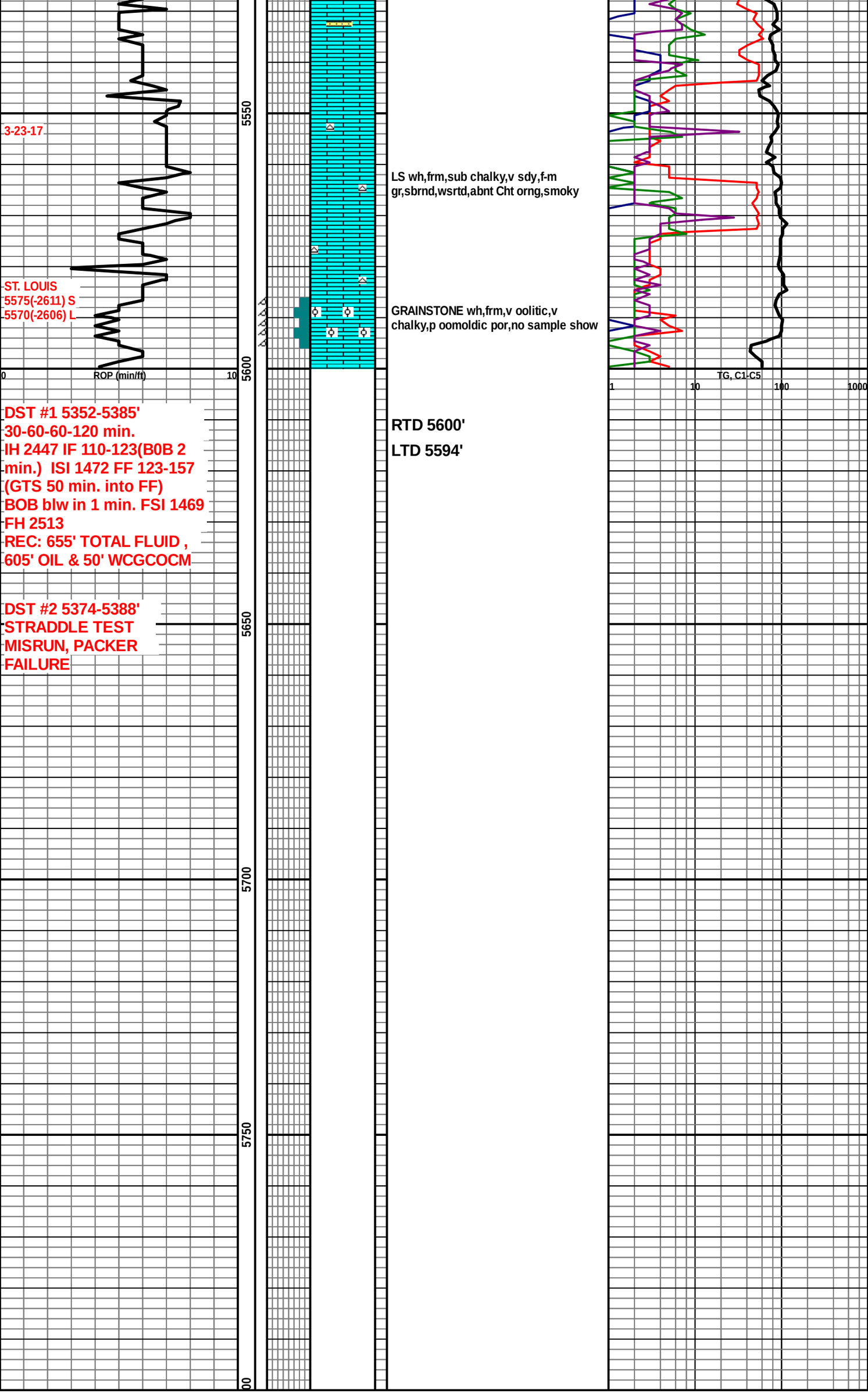

chky,p por
SH gy,gn,frm,sl britt,arg ip
LANSING A
4152(-1188) S
4146(-1182) L
LS crm,v hd,v dns,blky, crptoxln
WOB 35
RPM 60
PP 1050
MUD DATA 4164'
WT 9.0 VIS 49 FL
8.8 PH 10.5 CL
4400 LCM 4#
SH gy,gy gn,sft-frm,fiss ip,sl carb,some arg
0
ROP (min/ft)
10
4150
4200
LS crm,frm,v foss,gran tex, some p-fr intgr & pp vuggy por,ns
1
10
100
1000
TG, C1-C5
P
SH gy gn,frm,fiss,abnt pyr
LANSING C
4246(-1282) S
4242(-1278) L
LS crm,v hd,dns,crptoxln with bedded SH aa
F
PACKSTONE crm,frm,v foss,gd oomoldic por,fr pp vuggy por,ns
4250
LS off wh,crm,frm,fnly microxln,abnt chky,fr microxln por,ns with thin SH gy,gy gn,frm,fiss
4300
LS crm,frm,v foss,chky ip, p intgr por, some fr oomoldic por,ns
SH gy,gy gn,some blk,frm,fiss,carb ip
LANSING F
4358(-1394) S
4356(-1392) L
LS wh,hd,dns,crptoxln with thin SH aa
4350
GS
GRAINSTONE crm,frm,v oolitic,v chky ip,fr-gd oomoldic por, ns
LS crm,v hd,dns,chky ip,abnt Cht wh with thin SH gy,hd,fiss
4400


LANSING G
4450(-1486) S
4446(-1482) L
3-17-17
WOB 34
RPM 65
PP 1000
LANSING I
4526(-1562) S
4522(-1558) L
0
ROP (min/ft)
10
BIT TRIP
4623'
KC A
4622(-1658) S
4621(-1657) L
3-18-17
KC B
4682(-1718) S
4672(-17708) L
WOB 38
4450
4500
4550
4600
4650
SH aa gy,hd,fiss-blky
SH blk,blky,v carb
SH gy,gy gn,sl hd,fiss
GRAINSTONE crm,frm,v oolitic,g oomoldic por,ns
LS crm,v hd,dns,crptoxln with thin SH aa
LS off wh,frm,microxln,v chky ip,f intxln por,ns
LS crm,tan,v hd,v dns,crptoxln,v blky with thin SH aa
LS crm,frm,v chky,p vis por,ns
SH gy,gy blk,frm,carb ip
PACKSTONE crm,sl hd,v foss,dns matrix,p-tr fr intgr por,ns
LS lt tan,v hd,dns,crptoxln,
SH gy,gy gn,blk,frm,fiss, v carb ip
LS crm,tan,v hd,v dns,crptolxn with thin SH aa
LS crm,frm,v chky,p vis por,ns
LS crm,v hd,dns,v fnly microxln
SH gy,gy gn,blk,frm,fiss, carb with thin LS aa, v dns
SH blk,frm,fiss,v carb
LS tan,v hd,dns,v fnly xln,blky, foss ip
20 units
MUD DATA 4469'
WT 9.4 VIS 56 FL
10.0 PH 9.0 CK 1
CL 4700 LCM 4#
TG, C1-C5
1
10
100
1000
T.G.
40 units
70 units
C.G.


RPM 65
PP 1000
4700
4750
4800
4850
4900
4950
BKC 4771(-1807) S
4760(-1796) L
MARMATION
4780(-1816) S
4770(-1806) L
PAWNEE
4890(-1926) S
4880(-1916) L
3-19-17
CHEROKEE
4934(-1970) S
4924(-1960) L
0
ROP (min/ft)
10
LS brn,v hd,v dns,blky, crptoxln
LS brn,frm,v foss,some p microxln por,ns
LS brn,v hd,dns,sl foss,v p por,ns
SH gy,blk,frm,blky,sl carb
LS brn,v hd,dns,crptoxln, sl foss with thin carb SH aa
PACKSTONE crm,sl hd,microxln,v foss, p-fr oomoldic por,no sample show
LS aa v dns
SH aa blk,fiss,v carb
LS crm,hd,blky,dns,v foss,no vis por,ns with thin SH aa
LS crm,v hd,v dns,v blky, no vis por,nswith thin SH blk,frm,v carb,fiss
LS lt brn,v hs,v dns,crptoxln
LS crm,lt tan,v hd,dns,crptoxln,v blky,ns
SH blk,frm,fiss,v carb with thin dns LS aa
LS crm,v hd,dns,cprtoxln,tr Cht
SH aa v carb
LS crm,brn,v hd,dns,blky, crptoxln some Cht smoky
SH blk,frm,v carb
LS lt gy brn,v hd,v dns,cptoxln,blky,abnt pel ip,tr Cht tan with thin Sh gy gn,blk,frm,fiss, carb ip
MUD DATA 4685'
WT 9.3 VIS 55 FL 9.2 PH 9.5 CK 1 CL 2900 LCM 3#
75 units
37 units
TG, C1-C5
1
10
100
1000
75 units
85 units
65 units
MUD DATA 4933'
WT 9.45 VIS 50 FL 9.6 PH 10.0 CK 1 CL 3100 LCM 3#
C.G.


WOB 40
RPM 60
PP 1000
0
ROP (min/ft)
10
5000
5050
ATOKA
5094(-2130) S
5082(-2118) L
3-20-17
5100
5150
5200
WOB 40
RPM 65
PP 1050
MORROW
LS by brn,v hd,v dns,crptoxln, blky,foss ip
SH blk,some d gy,frm,fiss,v carb
LS crm,hd,v fnly microxln, p por,ns with thin SH aa
SH gy,gy blk,frm,sl carb, some v arg,gummy with thin LS aa
LS crm,tan,v hd,v dns, crptoxln,blky
SH dk gy blk,blk,frm,fiss, carb
SH gy,gy blk,frm,carb ip with thin SH aa
LS brn,v hd,dns,blky,crptoxln
LS crm,sl hd,microxln,abnt blk specs(foss pellets),p por,ns some sdy ip,no sample show
LS crm-brn,v hd,v dns, crptoxln,foss ip
LS lt brn,v hd,v dns,blky, crptoxln,some Cht tan
SH blk,frm,fiss,v carb
LS brn,v hd,v dns,blky,chty,crptoxln
SH dk gy,blk,frm,v carb,fiss with thin LS aa
LS aa v dns
SH blk,frm,v carb,blky with interbeded LS aa
SH & intbedded LS aa brn,v hd,dns,crptoxln
38 units
TG, C1-C5
1
10
100
1000
93 units
C.G.
MUD DATA 5104'
WT 9.2 VIS 52 FL
8.4 PH 9.5 CK 1
CL 2450 LCM 5#
91 units
C5
90 units

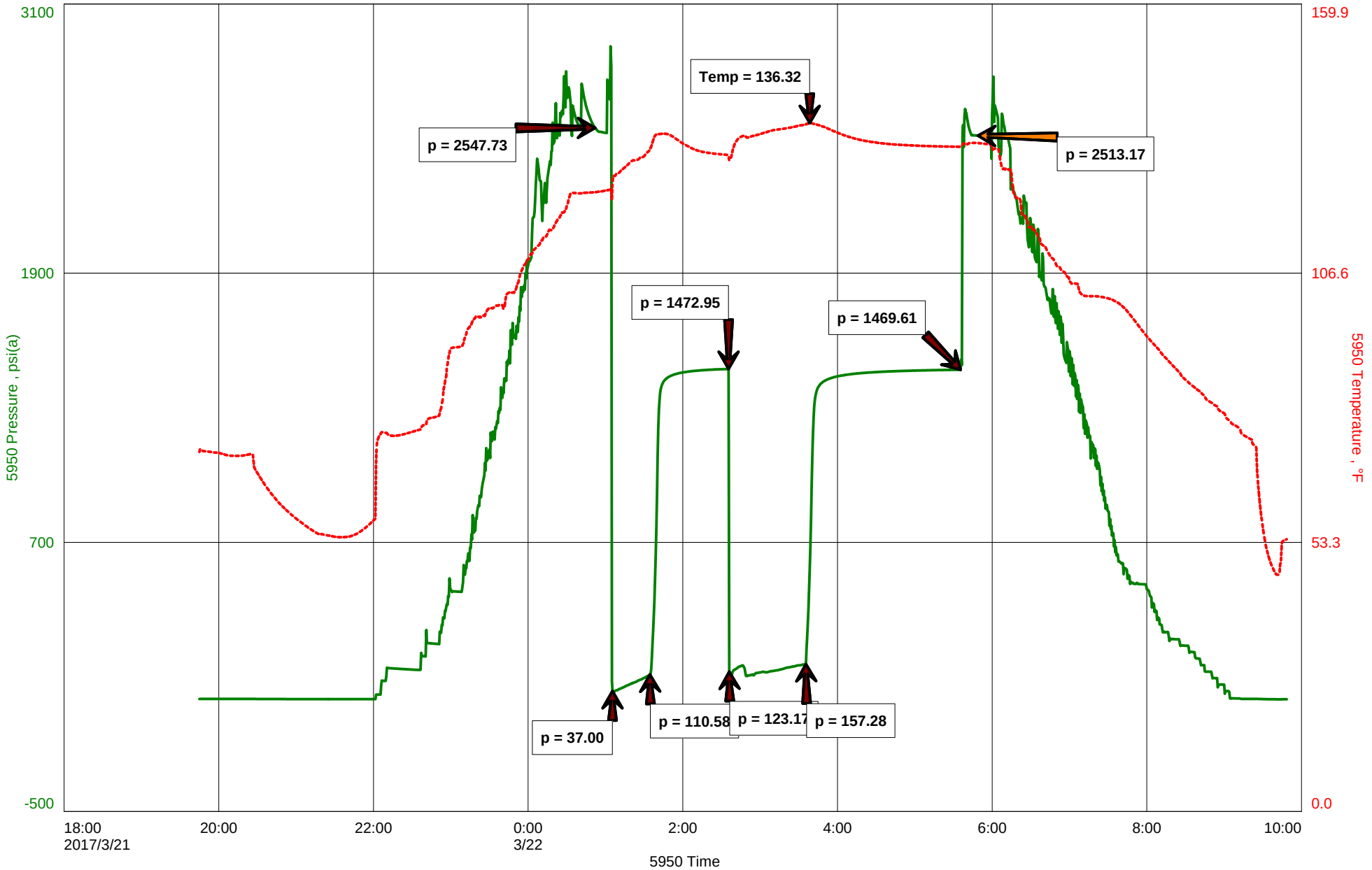

5260(-2296) S
5260(-2296) L
3-21-17
MORROW SAND
5346(-2382) S
5344(-2380) L
DST #1
5352-85'
(RESULTS
BELOW)
MUD DATA 5364'
WT 9.3 VIS 61
FL 9.2 PH 10.5
CK 1 CL 3550
LCM 5#
3-22-17
0
ROP (min/ft)
10
DST#2 5380-5394'
(RESULTS BELOW)
MUD DATA 5385'
WT 9.3 VIS 53 FL
8.4 PH 9.5 CK 1
CL 5700 LCM 3.5#
ST. GENEVIEVE
5492(-2528) S
5480(-2516) L
WOB 40
RPM 65
PP 1050
5250
5300
5350
5400
5450
5500
SH lt gy,gn,v dk gy blk,frm,fiss wxy ip,carb ip
SH dk gy blk,gn,frm,carb ip
SH aa with v thin strngs SS trns,hd,m gr,ang,psrtd, dns calc cmt,abnt glau,v por por,ns
P
P
SH aa bcmg v sdy,slty,abnt pyr
SS trns-brn with stn,sl fri,f gr,wsrtd,rnd,cln,f-g intgr por,sl sileous cmt,even yell flour,even brn stn,instant flash cut,g strng odor
SH gn,gy,gy blk,frm,fiss,wxy ip,abnt cavings after DST #1
VERY POOR SAMPLES AFTER DST
SS trnsl,lt brn with stn,sl hd,f gr,dns calc cmt,arg,msrtd,p-fr intgr por,spty-even live brn stn,yell fluor,g fast cut,fr odor
SH gy,gn,frm,some LS lt brn,hd,crptoxln
SS trns,hd,f gr,rnd,wsrtd, blky,dns,sileous cmt, p-fr intgr por,spty live brn stn,fr faint cut
Sh pale gy,gy gn,frm,fiss
SH gy,gn,frm,fiss with thin SS wh,frmf gr,rnd,cln,fr-g por,ns
LS crm,hd,blky,v fnly xln with thin SS wh,frm,fg,wsrtd,chky cmt, p por,ns
SH gn,brn,gy,frm,spltry, with thin SS aa
LS crm,some pale orng,frm,blky,sub chky,v sdy,no vis por,no sample show
120 units
380 units
Re-cycle Gas oil in mud
500 units
Trip Gas
TG. C1-C5
1
10
100
1000
Re-cycle Gas, oil in mud
230 units
200 units


3-23-17
ST. LOUIS
5575(-2611) S
5570(-2606) L
0
ROP (min/ft)
10
5550
5600
5650
5700
5750
00
LS wh,frm,sub chalky,v sdy,f-m gr,sbrnd,wsrtd,abnt Cht orng,smoky
GRAINSTONE wh,frm,v oolitic,v chalky,p oomoldic por,no sample show
TG, C1-C5
1
10
100
1000
DST #1 5352-5385'
30-60-60-120 min.
IH 2447 IF 110-123(B0B 2 min.) ISI 1472 FF 123-157 (GTS 50 min. into FF)
BOB blw in 1 min. FSI 1469
FH 2513
REC: 655' TOTAL FLUID , 605' OIL & 50' WCGCOCM
DST #2 5374-5388'
STRADDLE TEST
MISRUN, PACKER FAILURE
RTD 5600'
LTD 5594'

Berexco LLC
Dst #1 Morrow 5352-5385'
Start Test Date: 2017/03/21
Final Test Date: 2017/03/22

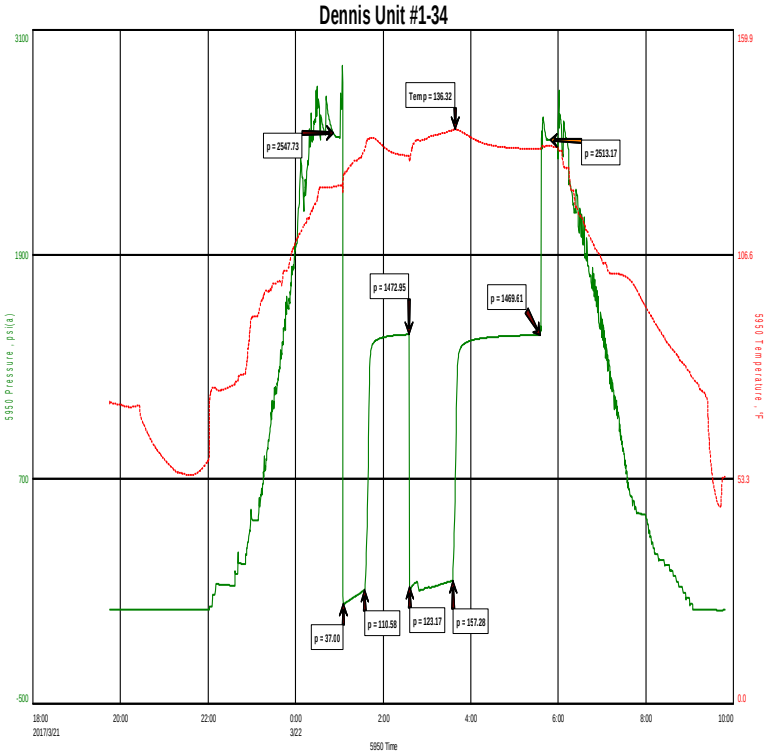
Dennis Unit #1-34
Formation: Dst #1 Morrow 5352-5385'
Pool: Infield
Job Number: P0172

Dennis Unit #1-34



Michael Carroll
620-617-0368
carroll.dtllc@gmail.com

Hoisington, Kansas



General Information

Company Name Berexco LLC

Contact	Brett Blazer
Well Name	Dennis Unit #1-34
Unique Well ID	Dst #1 Morrow 5352-5385'
Surface Location	Sec 34-28s-33w Haskell County
Field	NA
Well Type	Vertical
Test Type	Drill Stem Test
Well Operator	Berexco LLC
Formation	Dst #1 Morrow 5352-5385'
Well Fluid Type	01 Oil
Test Purpose	Initial Test
Start Test Date	2017/03/21
Start Test Time	19:45:00
Final Test Time	09:50:00
Job Number	P0172
Report Date	2017/03/21
Prepared By	Michael Carroll

TEST RECOVERY

Remarks **Recovery:** Gas To Surface - To Weak To Gauge

605' Clean Oil Gravity 22.5 @ 60 Degrees

50' SLWCGCOCM 20%G 25%O 7%W 48%M

Total Fluid: 655'

Tool Sample: 46%O 11%W 43%M

Chlorides: 12000 PPM
RW .78 @ 50 Degrees
PH 7

DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313

DRILL-STEM TEST TICKET
FILE: DENNISUNIT#1-34DST#1

TIME ON: 1945 3-21
TIME OFF: 0950 3-22

Company BEREXCO LLC — Lease & Well No. DENNIS UNIT #1-34
Contractor BEREDCO RIG 2 — Charge to BEREXCO LLC
Elevation 2956 SURVEYED Formation MARROW Effective Pay ____ Ft. Ticket No. P0172
Date 3-21-17 Sec. 34 Twp. 28 S Range 33 W County HASKELL State KANSAS
Test Approved By BRYAN BYNOS — Diamond Representative Michael Carroll

Formation Test No. 1 Interval Tested from 5352 ft. to 5385 ft. Total Depth 5385 ft.
Packer Depth 5347 ft. Size 6 3/4 in. — Packer depth ____ ft. Size 6 3/4 in.
Packer Depth 5352 ft. Size 6 3/4 in. — Packer depth ____ ft. Size 6 3/4 in.
Depth of Selective Zone Set ____

Top Recorder Depth (Inside) 5337 ft. — Recorder Number 5950 Cap. 5000 P.S.I.
Bottom Recorder Depth (Outside) 5356 ft. — Recorder Number 0230 Cap. 5000 P.S.I.
Below Straddle Recorder Depth ____ ft. — Recorder Number ____ Cap. ____ P.S.I.

Mud Type Chem Viscosity 61 — Drill Collar Length 562 ft. I.D. 2 1/4 in.
Weight 9.2 Water Loss 9.2 cc. — Weight Pipe Length 0 ft. I.D. 2 7/8 in
Chlorides 3550 P.P.M. — Drill Pipe Length 4756 ft. I.D. 3 1/2 in
Jars: Make STERLING Serial Number 11 — Test Tool Length 34 ft. Tool Size 3 1/2-IF in
Did Well Flow? NO Reversed Out NO — Anchor Length 33 ft. Size 4 1/2-FH in
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. — Surface Choke Size 1 in. Bottom Choke Size 5/8 in

Blow: 1st Open: 1"BLOW-BUILT TO BOB IN 2 MINUTES 7"BB
2nd Open: 4"BLOW-BUILT TO BOB IN 1 MINUTE 40 SECONDS (GTS @ 50 MINUTES) BBBB

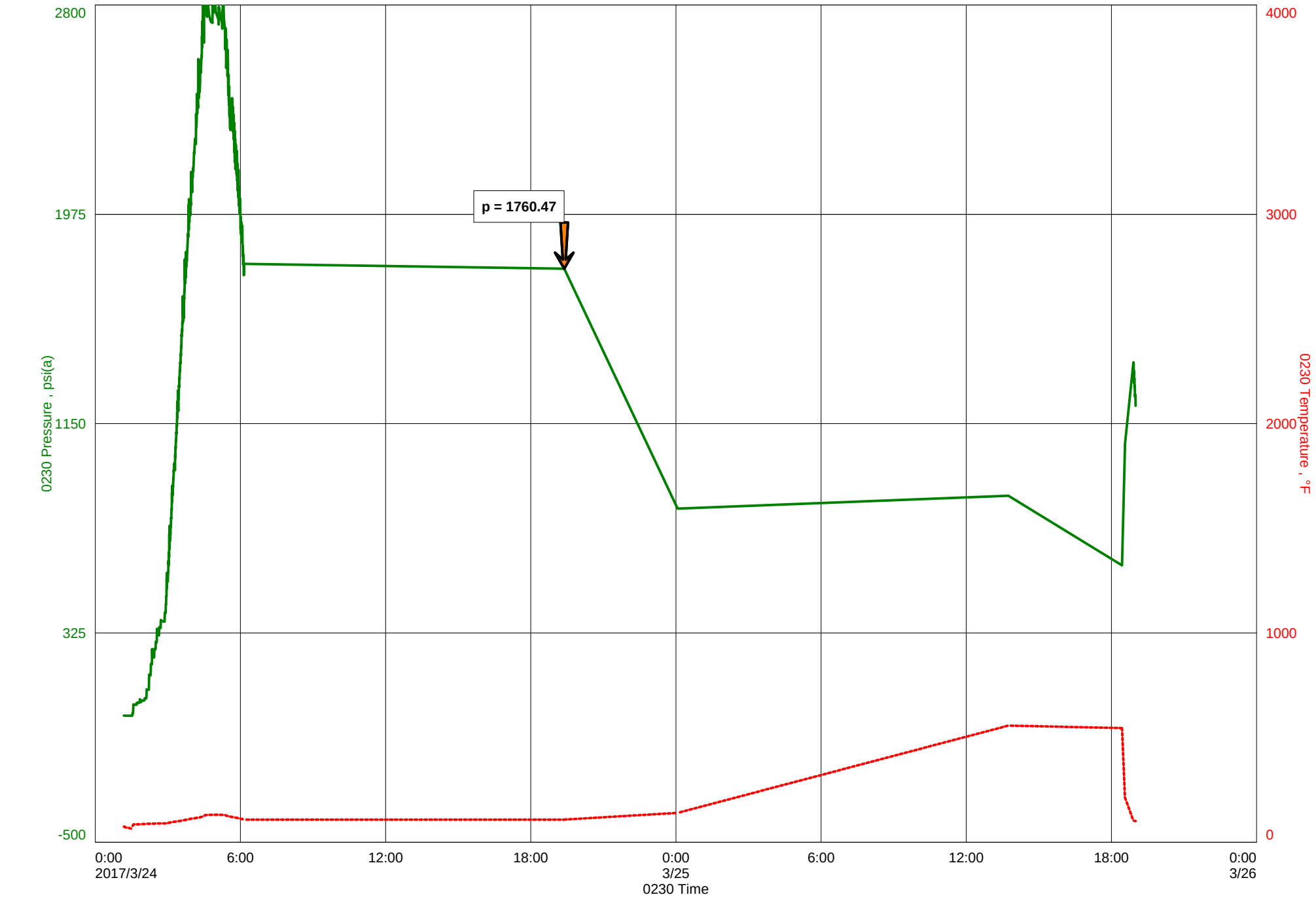
Recovered ____ ft. of GAS TO SURFACE TO WEAK TO GAUGE — CHLORIDES 12000 PPM
Recovered 605 ft. of CLEAN OIL GRAVITY 22.5 @ 60 DEGREES — RW .78 @ 50 DEGREES
Recovered 50 ft. of SLWCGCOCM 20%G 25%O 7%W 48%M — PH 7
Recovered 655 ft. of TOTAL FLUID
Recovered ____ ft. of ____
Recovered ____ ft. of ____

Remarks: TOOL SAMPLE:46%O 11%W 43%M

Price Job	
Other Charges	
Insurance	
Total	

Time Set Packer(s) 1:05 A.M. A.M. P.M. Time Started Off Bottom 5:35 A.M. A.M. P.M. Maximum Temperature 136

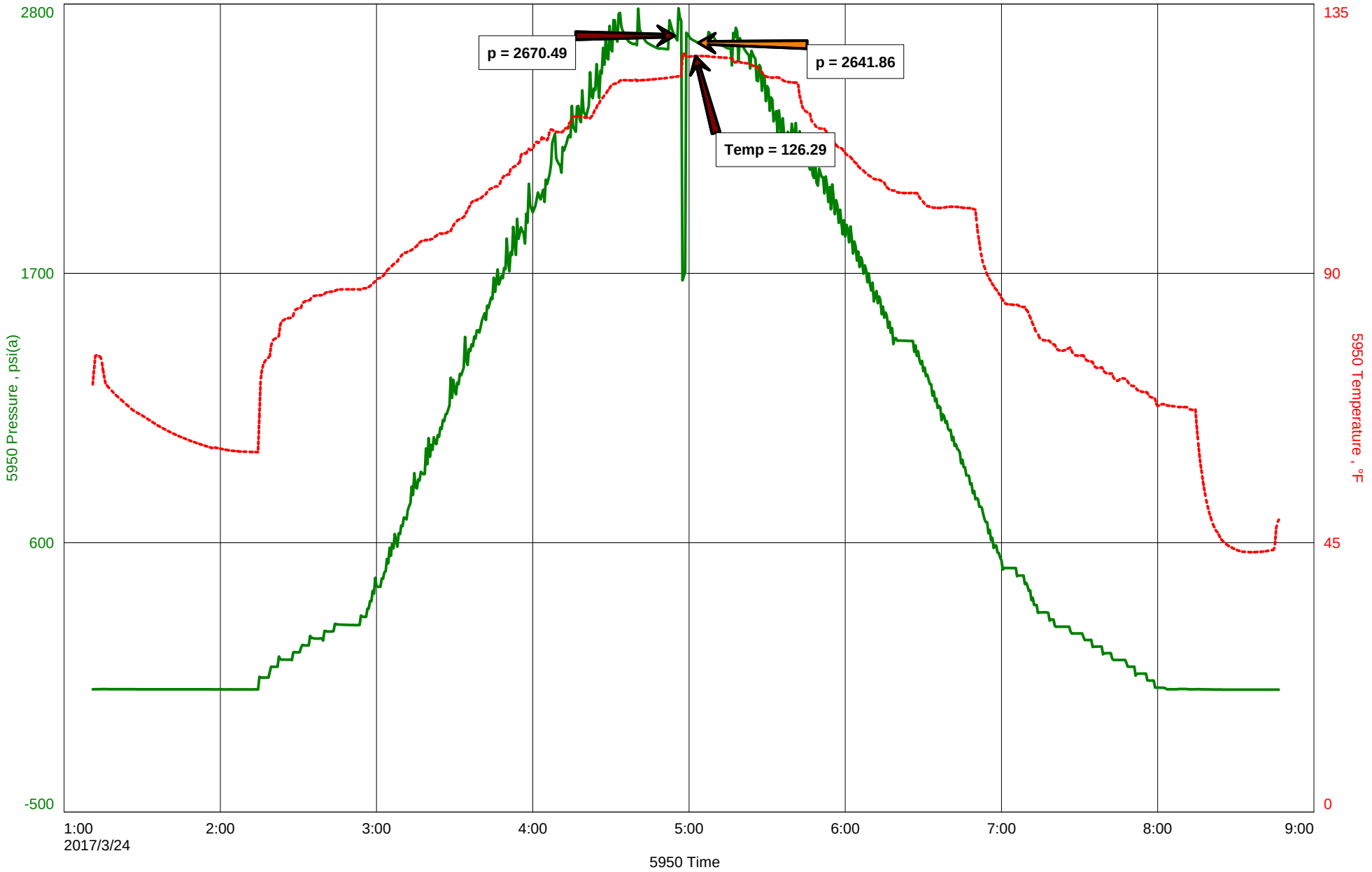
Initial Hydrostatic Pressure ..... (A) 2548 P.S.I.
Initial Flow Period ..... Minutes 30 (B) 37 P.S.I. to (C) 111 P.S.I.
Initial Closed In Period ..... Minutes 60 (D) 1473 P.S.I.
Final Flow Period ..... Minutes 60 (E) 123 P.S.I. to (F) 157 P.S.I.
Final Closed In Period ..... Minutes 120 (G) 1470 P.S.I.
Final Hydrostatic Pressure ..... (H) 2513 P.S.I.


p = 1760.47
2800
1975
1150
325
-500
0230 Pressure , psi(a)
4000
3000
2000
1000
0
0230 Temperature , °F
0:00
2017/3/24
6:00
12:00
18:00
0:00
3/25
6:00
12:00
18:00
0:00
3/26
0230 Time

Berexco LLC
Dst #2 Lower Marrow 5374-5388'
Start Test Date: 2017/03/24
Final Test Date: 2017/03/24

Dennis Unit #1-34
Formation: Dst #2 Lower Marrow 5374-5388'
Pool: Infield
Job Number: P0173

Dennis Unit #1-34



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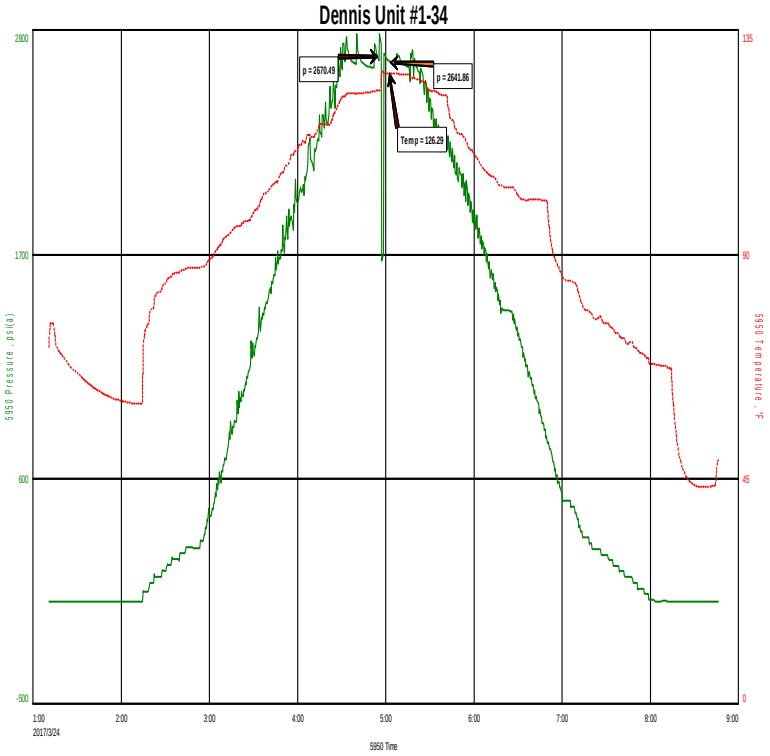

General Information

Company Name Berexco LLC

Contact	Brett Blazer
Well Name	Dennis Unit #1-34
Unique Well ID	Dst #2 Lower Marrow 5374-5388'
Surface Location	Sec 34-28s-33w Haskell County
Field	NA
Well Type	Vertical
Test Type	Drill Stem Test
Well Operator	Berexco LLC
Formation	Dst #2 Lower Marrow 5374-5388'
Well Fluid Type	01 Oil
Test Purpose	Initial Test
Start Test Date	2017/03/24
Start Test Time	01:11:00
Final Test Time	08:48:00
Job Number	P0173
Report Date	2017/03/24
Prepared By	Michael Carroll

TEST RECOVERY

Remarks **Recovery:** 738' Mud 100%M

Total Fluid: 738'

Tool Sample: 100%M

DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313

DRILL-STEM TEST TICKET

FILE: DENNISUNIT#1-34DST#2

TIME ON: 0111

TIME OFF: 0848

Company BEREXCO LLC — Lease & Well No. DENNIS UNIT #1-34

Contractor BEREDCO RIG 2 — Charge to BEREXCO LLC

Elevation 2956 SURVEYED Formation LOWER MARROW Effective Pay _____ Ft. Ticket No. P0173

Date 3-24-17 Sec. 34 Twp. 28 S Range 33 W County HASKELL State KANSAS

Test Approved By BRYAN BYNOG — Diamond Representative Michael Carroll

Formation Test No. 2 Interval Tested from 5374 ft. to 5388 ft. Total Depth 5594 ft.

Packer Depth 5368 ft. Size 6 3/4 in. — Packer depth 5388 ft. Size 6 3/4 in.

Packer Depth 5374 ft. Size 6 3/4 in. — Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 5358 ft. — Recorder Number 5950 Cap. 5000 P.S.I.

Bottom Recorder Depth (Outside) _____ ft. — Recorder Number _____ Cap. _____ P.S.I.

Below Straddle Recorder Depth 5578 ft. — Recorder Number 0230 Cap. 5000 P.S.I.

Mud Type Chem Viscosity 44 — Drill Collar Length 562 ft. I.D. 2 1/4 in.

Weight 9.2 Water Loss 11.6 cc. — Weight Pipe Length 0 ft. I.D. 2 7/8 in

Chlorides 5100 P.P.M. — Drill Pipe Length 4984 ft. I.D. 3 1/2 in

Jars: Make STERLING Serial Number 11 — Test Tool Length 34 ft. Tool Size 3 1/2-IF in

Did Well Flow? NO Reversed Out NO — Anchor Length 14 ft. Size 4 1/2-FH in

Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. — 206' TAIL PIPE Surface Choke Size 1 in. Bottom Choke Size 5/8 in

Blow: 1st Open: MISS RUN-TRIED ADDING WEIGHT, NO PACKER SEAT, PULLED OFF BOTTOM AS PER GEOS ORDERS

2nd Open:

Recovered 738 ft. of MUD 100%M

Recovered 738 ft. of TOTAL FLUID

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Remarks: TOOL SAMPLE:100%M

BELOW STRADDLE MAX PSI: 1760

Price Job	
Other Charges	
Insurance	
Total	

Time Set Packer(s) 4:55 A.M. A.M. P.M. Time Started Off Bottom _____ A.M. P.M. Maximum Temperature 126

Initial Hydrostatic Pressure ..... (A) 2670 P.S.I.

Initial Flow Period ..... Minutes 30 (B) _____ P.S.I. to (C) _____ P.S.I.

Initial Closed In Period ..... Minutes 60 (D) _____ P.S.I.

Final Flow Period ..... Minutes 60 (E) _____ P.S.I. to (F) _____ P.S.I.

Final Closed In Period ..... Minutes 120 (G) _____ P.S.I.

Final Hydrostatic Pressure ..... (H) 2642 P.S.I.

BJ Services LLC

CEMENTING LOG

STAGE NO.

Date 7/9/17 District Hobbs Ticket No 18230
Company Beneco Rig Beredco 2
Lease Hermit land T Well No 134
County State
Location Field

CASING DATA: Conductor ☐ PTA ☐ Squeeze ☐ Misc ☐
Surface ☐ Intermediate ☐ Production ☐ Liner ☐

Size 8 5/8 Type Weight Collar

Casing Depths: Top KB Bottom 1711

Drill Pipe: Size Weight Collars
Open Hole: Size T.D. ft. P.B. to ft.

CAPACITY FACTORS:

Casing: Bbls/Lin. ft. .0637 Lin. ft./Bbl.
Open Holes: Bbls/Lin. ft. Lin. ft./Bbl.
Drill Pipe: Bbls/Lin. ft. Lin. ft./Bbl.
Annulus: Bbls/Lin. ft. Lin. ft./Bbl.
Bbls/Lin. ft. Lin. ft./Bbl.

Perforations: From ft. to ft. Amt.

CEMENT DATA:

Spacer Type:
Amt. Sks Yield ft³/sk Density PPG

LEAD: Pump Time hrs. Type 65/35 6% gel 3% CC
Excess
Amt. 600 Sks Yield 2.0 ft³/sk Density 12.1 PPG

TAIL: Pump Time hrs. Type Com 2% CC
Excess
Amt. 160 Sks Yield 1.33 ft³/sk Density 14.2 PPG

WATER: Lead 10.0 gals/sk Tail 6.2 gals/sk Total Bbls.

Pump Trucks Used 566-281
Bulk Equip. 818
890

Float Equip: Manufacturer
Shoe: Type Depth
Float: Type Depth
Centralizers: Quantity Plugs Top Btm.
Stage Collars
Special Equip.
Disp. Fluid Type H2O Amt. Bbls. Weight PPG
Mud Type Weight PPG

COMPANY REPRESENTATIVE CEMENTER [signature]

TIME AM/PM	PRESSURES PSI: DRILL PIPE CASING	ANNULUS	FLUID PUMPED DATA: TOTAL FLUID	Pumped Per Time Period	RATE Bbls Min.	REMARKS
						on location SFTY mtg, set up
						Rig up, Circulate
	400			170.0	4.0	Mix ALW
	400			37.0	4.0	Mix Com
	600			108.0	5.0	Displace w/H2O
	900					Bump Plug
						Job complete

FINAL DISP. PRESS: PSI BUMP PLUG TO PSI BLEEDBACK BBLS. THANK YOU

THILL PRINTING CO. INC. GREAT BEND, KS

Cement Job Summary

Job Number:	Lib1703251035	Job Purpose	02 Production/Long String		
Customer:	Berexco LLC			Date:	3/25/2017
Well Name:	Dennis Unit	Number:	1-34	API/UWI:	
County:	Haskell	City:		State:	KS
Cust. Rep:		Phone:		Rig Phone:	
Legal Desc:				Rig Name:	Berexco #2
Distance	50 miles (one way)			Supervisor	Lenny Baeza

Employees:	Emp. ID:	Employees:	Emp. ID:
Jaime Torrez		Victor Corona Martha	
		Max Ball	

Equipment:	
549-4/550-5	604 Field Bin

Well Information

Open Hole Section

Description:	Size (in):	Excess	Top MD (ft)	Btm MD (ft)	
OPEN HOLE	7 7/8	40%	4600	5,592	
OPEN HOLE	7 7/8	115%	3600	4,600	
OPEN HOLE	7 7/8			3,600	

Tubulars

Description:	Size (in):	Wgt. (lb/ft)	ID (in)	Grade:	Top MD (ft)	Btm MD (ft)
PREVIOUS CASING	8 5/8	23	8.097	J-55	0	1,692
TOTAL CASING	5 1/2	15.5	4.95	S-55	0	5,592
STAGE TOOL	5 1/2	15.5	4.95	S-55		3,190
SHOE	5 1/2	15.5	4.95	S-55	5,550	5,592

Materials - Pumping Schedule

STAGE #1

Fluid Name	Description	Rqstd Qty	Density	Yield	Water (gal/sk)
Spacer 1	FRESH WATER	5	8.33	n/a	n/a
Fluid Name	**Description**	**Rqstd Qty**	**Density**	**Yield**	**Water (gal/sk)**
Lead 1	ALLIED LIGHT WEIGHT CEMENT- CLASS A	220	12.00	2.20	12.58
Addl. Additive	**Description**	**Conc. (lb/sk)**	**Determined by**	**Load Volume**	**UOM**
CLC-CPF	CELLOPHANE FLAKES	0.25	lb/sk	55.0	lbm
Fluid Name	**Description**	**Rqstd Qty**	**Density**	**Yield**	**Water (gal/sk)**
Tail 1	ALLIED SPECIAL BLEND CEMENT - CLASS A	165	14.80	1.52	6.76
Addl. Additive	**Description**	**Conc. (lb/sk)**	**Determined by**	**Load Volume**	**UOM**
CLC-KOL	KOL-SEAL	5	lb/sk	825.0	lbm
CFL-330	FLUID LOSS ADDITIVE - LOW DENSITY SLURRIES	0.47	% BWOC	77.6	lbm
CDF-100P	DEFOAMER - POWDER	0.235	% BWOC	38.8	lbm
Fluid Name	**Description**	**Rqstd Qty**	**Density**	**Yield**	**Water (gal/sk)**
Disp. 3	Fresh Water	52.09380005	8.33	n/a	n/a
Fluid Name	**Description**	**Rqstd Qty**	**Density**	**Yield**	**Water (gal/sk)**
Disp. 4	Mud	80	9.00	n/a	n/a

STAGE #2

Fluid Name	Description	Rqstd Qty	Density	Yield	Water (gal/sk)
Stg 2 Spacer 1	FRESH WATER	5	8.33	n/a	n/a
Fluid Name	**Description**	**Rqstd Qty**	**Density**	**Yield**	**Water (gal/sk)**
Stg 2 Lead 1	ALLIED LIGHT WEIGHT CEMENT- CLASS A	350	12.00	2.20	12.58
Addl. Additive	**Description**	**Conc. (lb/sk)**	**Determined by**	**Load Volume**	**UOM**
CLC-CPF	CELLOPHANE FLAKES	0.25	lb/sk	87.5	lbm
Fluid Name	**Description**	**Rqstd Qty**	**Density**	**Yield**	**Water (gal/sk)**

Cement Job Summary

Stg 2 Tail 1	ALLIED SPECIAL BLEND CEMENT - CLASS A	50	14.80	1.50	7.07
Addl. Additive	**Description**	**Conc. (lb/sk)**	**Determined by**	**Load Volume**	**UOM**
CLC-CPF	CELLOPHANE FLAKES	0.25	lb/sk	0.0	lbm
Fluid Name	**Description**	**Rqstd Qty**	**Density**	**Yield**	**Water (gal/sk)**
Stg 2 Disp. 1	Displacement	75.92418417	8.33	n/a	n/a

Job Number:	Lib1703251035	Job Purpose	02 Production/Long String		
Customer:	Berexco LLC			Date:	3/25/2017
Well Name:	Dennis Unit		Number: 1-34	API/UWI:	
County:	Haskell	City:		State:	KS
Cust. Rep:		Phone:		Rig Phone:	0
Distance	50 miles (one way)			Supervisor	Lenny Baeza

TIME	PRESSURE - (PSI)		FLUID PUMPED DATA		COMMENTS
AM/PM	CASING	ANNULUS	VOLUME	RATE (BPM)	
3/25/2017					On location @12:30am
3:30am					Rigging up to well head
4:20am					Safety meeting with company man and crew
4:20am					
4:38pm	2000				Pressure testing pumping lines
4:39pm	440		8	5	8 bbls of water ahead of cement
4:41pm	420		94	5	Mixing Lead Cement @12.0#
4:50am	320		139	4	Mixing Tail Cement @14.8#
5:00am	0		139	0	Shut downa and washing pumping to pit
					and dropping latch down plug
5:05am	100		0	5	Pumping displacement of 132 bbls total
5:13am	190		52	5	Pumped 52 bbls of water and swapping
					to 80 bbls of mud
5:17am	140		70	3	70bbls gone and slowing down to let
					plug pass threw DV tool
5:20am	380		80	5	80bbls gone picking up rate and getting
					lift pressure
5:30am	850		125	3	125 bbls gone and slowing down to land
					the plug
5:31am	860		132	0	132bbls gone and didn't land plug
					talked to company man and went ahead
5:34am	1300				and another 1/2 bbls and landed plug
5:35am	0				Dropping opening tool
5:45am					Tool opening with 500psi swapping lines to rig for 4Hr
9:30am					Plugging Rat and Mouse Hole with 50sk
9:45am	200		137	6	Mixing 350sk of lead cement @12.0#
10:00am	225		150	5	Mixing 50sk of tail cement @14.8#
10:10am	0		150	0	Shut down to washing pumping lines and
					drop plug
10:16am	200		150	6	Started displacement of 76bbls
10:25am	553		195	5	45bbls gone and getting cement to surface
10:30am	740		215	3	65bbls gone and slowing down to land plug
10:34am	1750		225	0	76bbls gone and landed plug to 1750psi
					25bbls of cement to surface
10:36am	0				Release psi and 1/2 back to truck
					Rigging down and leaving location @11:30am