

Borehole Profile Log / 4 Arm Caliper / PPC

Company: DCP Midstream LP

Well: ZIA AGI D2

Field: AGI Devonian Exploration

County: Lea State: New Mexico

Lea
AGI Devonian Exploration
1893' FSL & 950' FWL
ZIA AGI D2
DCP Midstream LPBorehole Profile Log
4 Arm Caliper
PPC

1893' FSL & 950' FWL	Elev.:	K.B.	3574.00 ft
Section:19, Township: T19S, Abstract:R32S		G.L.	3547.00 ft
		D.F.	3573.00 ft
Permanent Datum:	Ground Level	Elev.:	3547.00 f
Log Measured From:	Kelly Bushing	27.00 ft	above Perm.Datum
Drilling Measured From:	Kelly Bushing		
API Serial No.	Section:	Township:	Abstract:
30-025-42207	19	T19S	R32S

Logging Date 11-Dec-2016

Run Number 2B

Depth Driller 14771.00 ft

Schlumberger Depth 14771.00 ft

Bottom Log Interval 14770.00 ft

Top Log Interval 13635.00 ft

Casing Driller Size @ Depth 7 in @ 13622.00 ft

Casing Schlumberger 13635 ft

Bit Size 6 in

Type Fluid In Hole Fresh Water

Density Viscosity 8.4 lbm/gal 28 s

Fluid Loss PH 0 cm3 10

MUD Source of Sample Active Tank

RM @ Meas Temp 0.25 ohm.m @ 60 degF

RMF @ Meas Temp 0.19 ohm.m @ 60 degF

RMC @ Meas Temp

Source RMF RMC Calculated

RM @ BHT RMF @ BHT 0.08 @ 206 0.06 @ 206

Max Recorded Temperatures

Circulation Stopped Time 10-Dec-2016 12:30:00

Logger on Bottom Time 11-Dec-2016 16:15:00

Unit Number Location: 2191 Midland

Recorded By J.Shtull

Witnessed By Jim Hunter

Disclaimer

THE USE OF AND RELIANCE UPON THIS RECORDED-DATA BY THE HEREIN NAMED COMPANY (AND ANY OF ITS AFFILIATES, PARTNERS, REPRESENTATIVES, AGENTS, CONSULTANTS AND EMPLOYEES) IS SUBJECT TO THE TERMS AND CONDITIONS AGREED UPON BETWEEN SCHLUMBERGER AND THE COMPANY, INCLUDING: (a) RESTRICTIONS ON USE OF THE RECORDED-DATA; (b) DISCLAIMERS AND WAIVERS OF WARRANTIES AND REPRESENTATIONS REGARDING COMPANY'S USE AND RELIANCE UPON THE RECORDED-DATA; AND (c) CUSTOMER'S FULL AND SOLE RESPONSIBILITY FOR ANY INFERENCE DRAWN OR DECISION MADE IN CONNECTION WITH THE USE OF THIS RECORDED-DATA.

Contents

1. Header
2. Disclaimer
3. Contents
4. Remarks and Equipment Summary
5. Depth Summary
6. Composite 1 Main Pass 2" = 100'
 - 6.1 Integration Summary
 - 6.2 Software Version
 - 6.3 Composite Summary
 - 6.4 Log (Caliper 2 inch General)
7. Tail

Remarks and Equipment Summary

2B: Toolstring				2B: Remarks
Equip name LEH-QC	Length 80.18	MP name	Offset	Thank you for choosing Schlumberger Wireline
				Toolstring ran as per tool sketch
				Logging program and intervals confirmed with client prior to job
				Limestone matrix used
				Depth correlation confirmed with geologist
EDTC-B EDTH-B:8003 EDTG-A EDTC-B	77.72			
PPC-B:8179 PPC-B:8179	71.22			
		CTEM ACCZ HV Gamma Ra y TelStatus	74.22 0.00 0.00 72.35 71.22	
		PPC-B Calipers	70.08	
MAST-B:8546 ECH-SF:8081 MAPC-BA MAMS-CA:8546 MASS-BA:8084 MAXS-BA:8015	64.71			
		MAMS	49.27	



FBST-E
ECH-MJA:389
0
FBPC-A
AH-287
FBSH-D:801
FBAC-B
DHRU-F
FBSS-B

23.42

MAXS

23.42

Deviation
GPIT-F Inc
linometer

9.94

9.94

GPIT

0.00

Buttons

1.33



TOOL_ZERO

Lengths are in ft

Maximum Outer Diameter = 5.000 in

Line: Sensor Location, Value: Gating Offset

All measurements are relative to TOOL_ZERO

Depth Summary

2B

Depth Measuring Device

Type	IDW-B
Serial Number	6609
Calibration Date	03-Jun-2016
Calibrator Serial Number	
Calibration Cable Type	
Wheel Correction 1	-3
Wheel Correction 2	-2

Tension Device

Type	CMTD-B/A
Serial Number	3599
Calibration Date	09-Dec-2016
Calibrator Serial Number	13
Number of Calibration Points	10
Calibration Root Mean Square Error	10
Calibration Peak Error	15

Logging Cable

Type	7-46P-XS
Serial Number	U714051
Length	22100.00 ft
Conveyance Type	Wireline
Rig Type	Land

2B:Depth Control Parameters

Log Sequence	Subsequent Log In the Well
Reference Log Name	"Porosity" - J.Shtull
Reference Log Run Number	2A
Reference Log Date	29-Nov-2016

Depth Control Remarks

IDW used as primary depth control device
ZChart used as secondary depth control device

Composite 1

Main Pass 2" = 100'

Integration Summary

Output Channel(s)	Output Description	Input Parameter	Output Value	Unit
ICV	Integrated Cement Volume	GCSE_UP_PASS, GCSE_DOWN_PASS:2B, FCD	0	ft3
IHV	Integrated Hole Volume	GCSE_UP_PASS, GCSE_DOWN_PASS:2B	242.31	ft3

Software Version

Acquisition System

Maxwell 2016 SP3

Version

6.3.75395.3100

Composite Summary

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
2B	Log[4]:Up	Up	13970.54 ft	14785.44 ft	11-Dec-2016 4:47:16 PM	11-Dec-2016 5:33:52 PM	ON	6.50 ft	No
2B	Log[5]:Up	Up	13678.54 ft	14073.89 ft	11-Dec-2016 5:40:33 PM	11-Dec-2016 6:06:53 PM	ON	6.76 ft	Yes
2B	Log[6]:Up	Up	12946.49 ft	13864.80 ft	11-Dec-2016 6:09:20 PM	11-Dec-2016 6:48:37 PM	ON	6.00 ft	No

All depths are referenced to toolstring zero

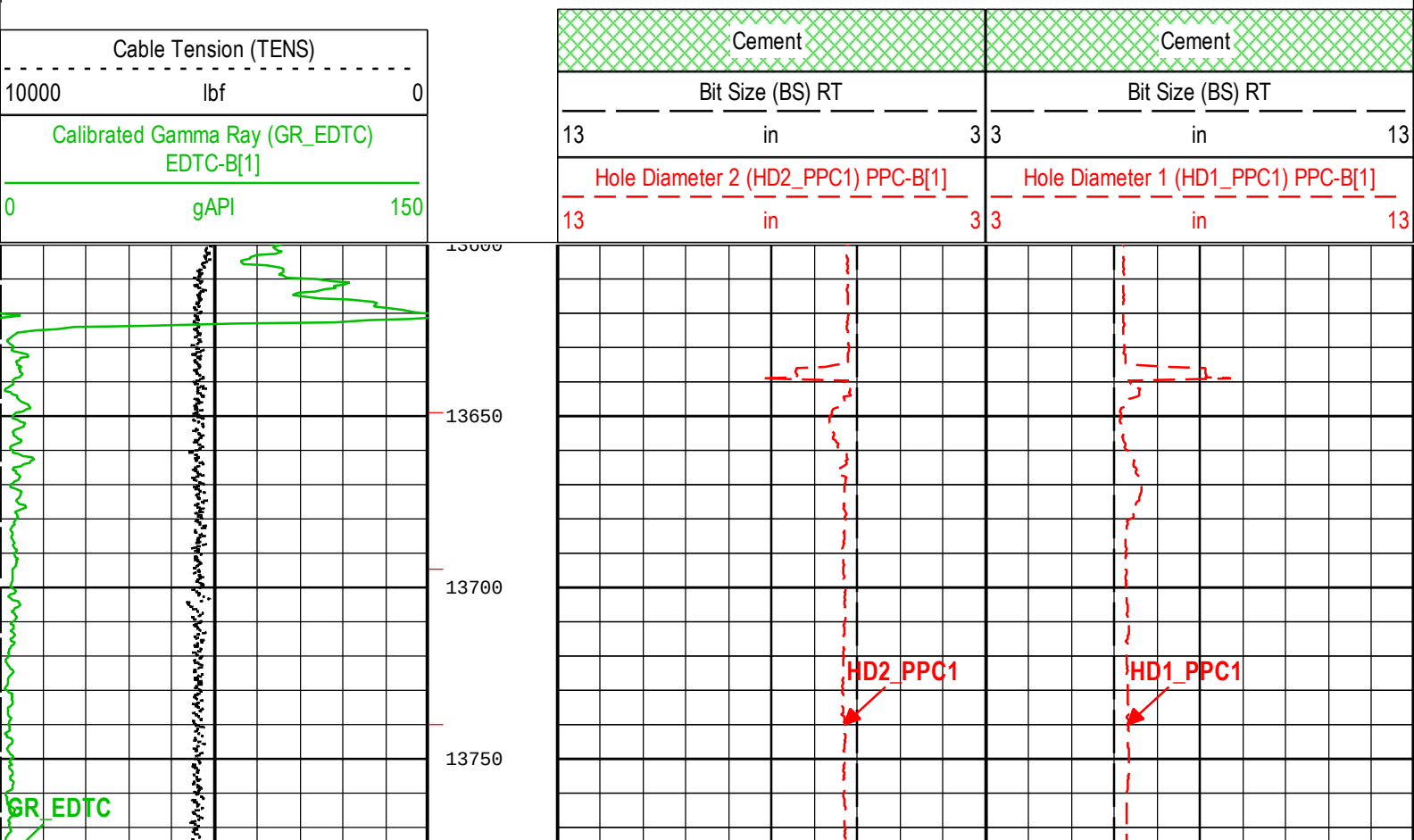
Log

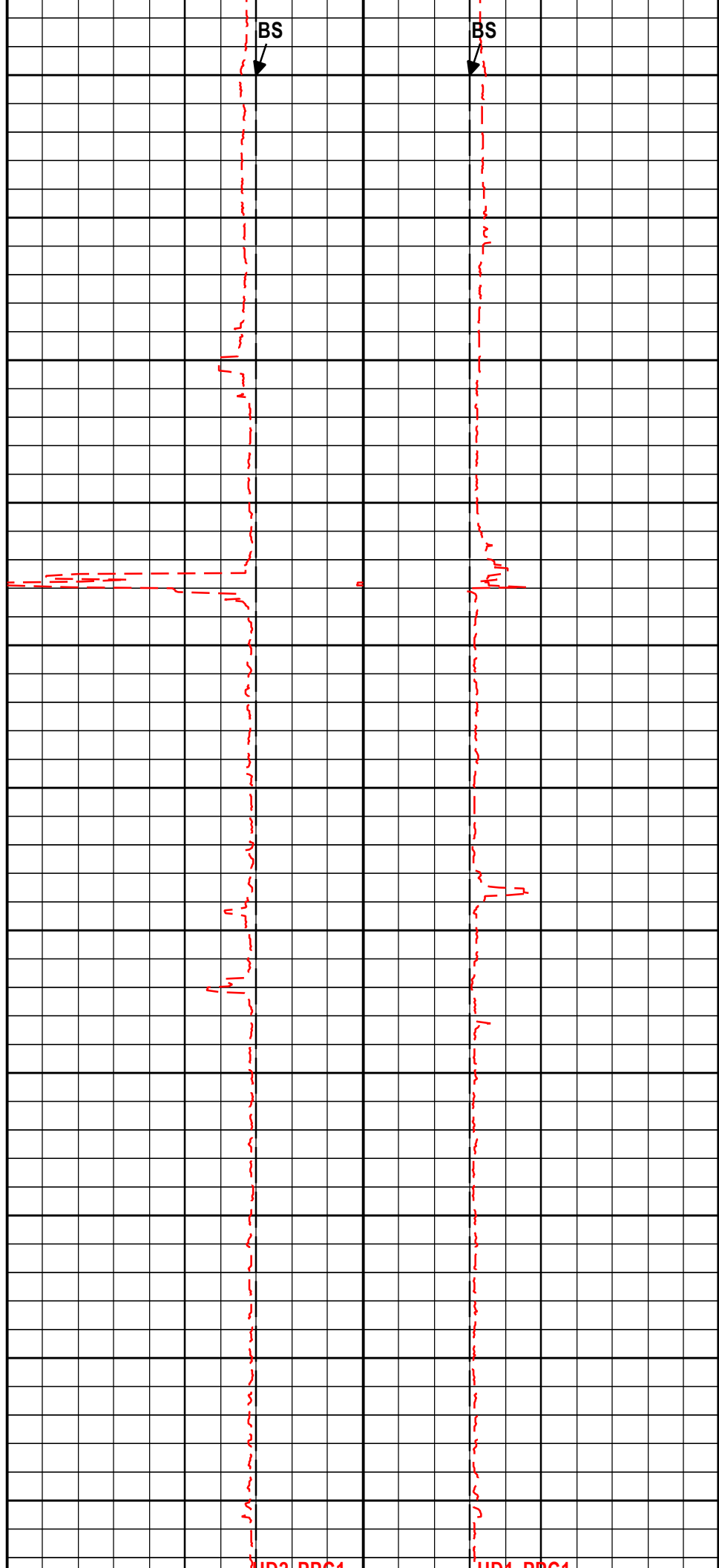
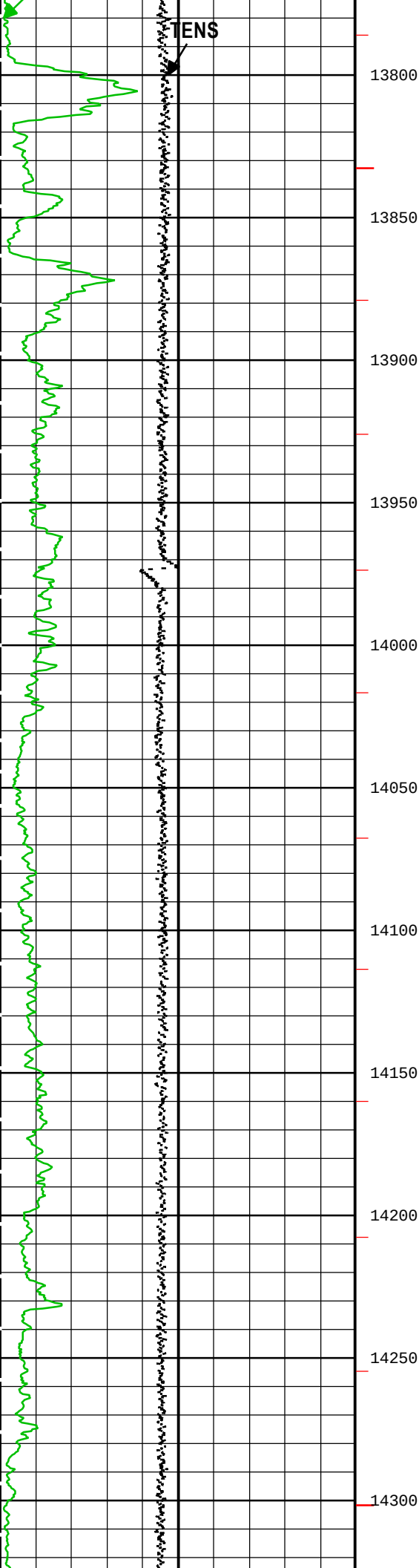
Company:DCP Midstream LPWell:ZIA AGI D2Composite 1:S036

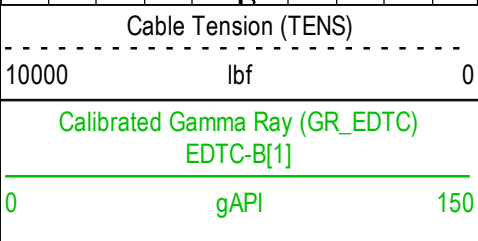
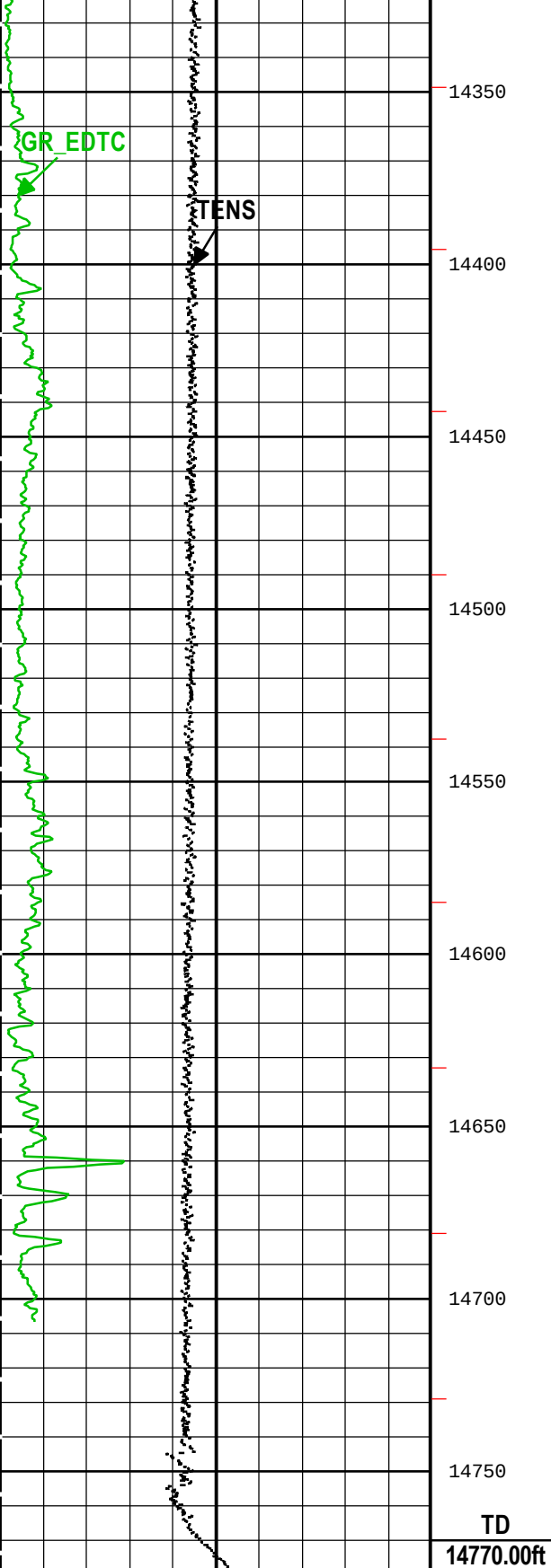
Description: HRLT BASIC LOG Format: Log (Caliper 2 inch General) Index Scale: 2 in per 100 ft Index Unit: ft Index Type: Measured Depth
Creation Date: 12-Dec-2016 09:56:26

Channel	Source	Sampling
BS	Borehole	6in - RT
GR_CAL	EDTC-B[1]:EDTC-B[1]:EDTC-B[1]	6in
HD1	PPC-B[1]:PPC-B[1]:PPC-B[1]	6in
HD2	PPC-B[1]:PPC-B[1]:PPC-B[1]	6in
ICV	Borehole	6in - RT
IHV	Borehole	6in - RT
TENS	WLWorkflow	1in
TIME_1900	WLWorkflow	0.1in

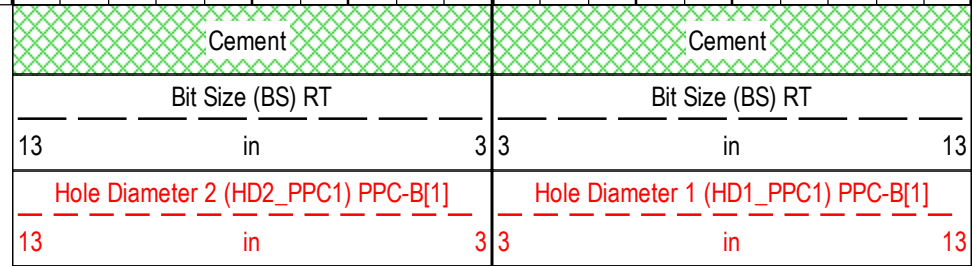
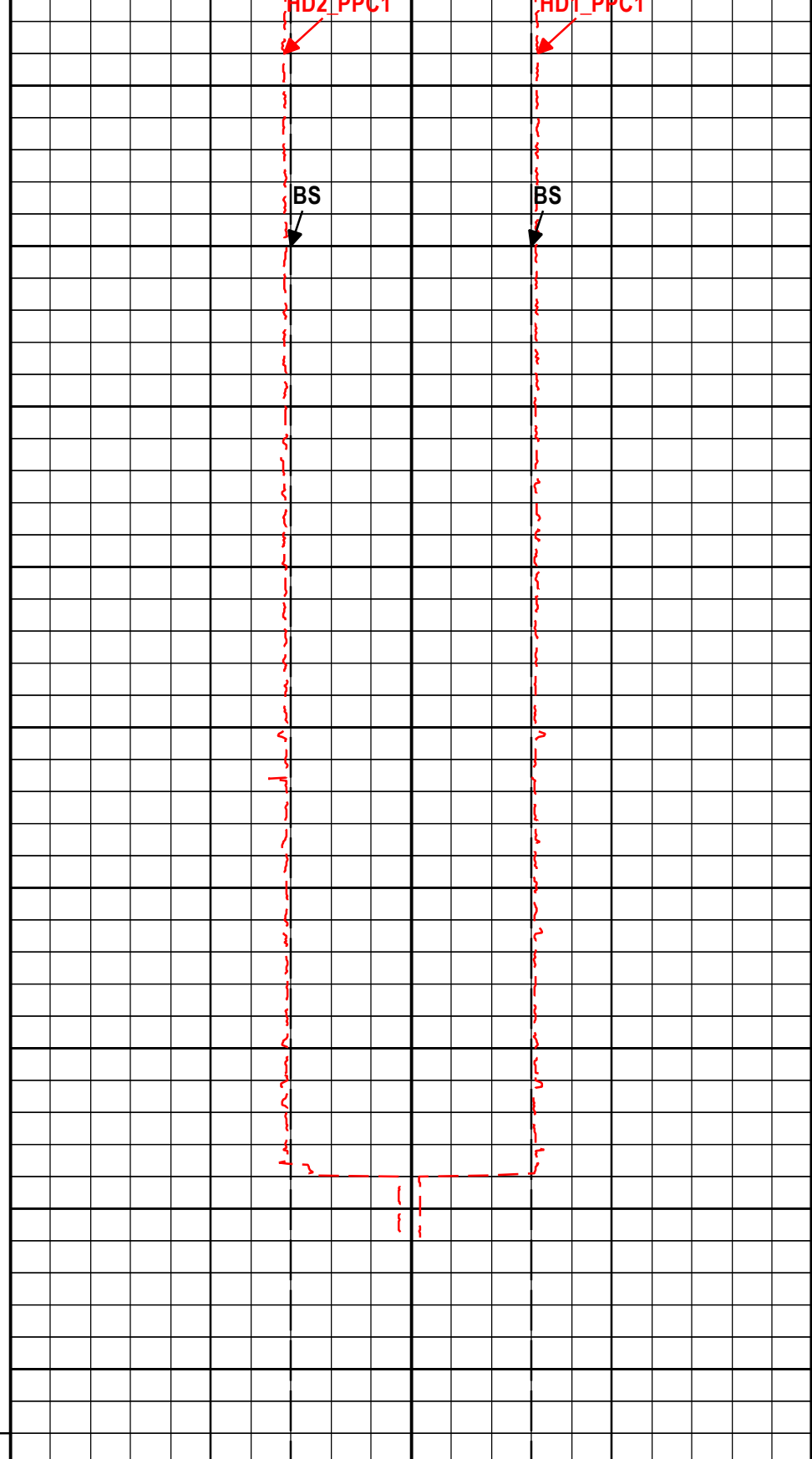
— IHV - Integrated Hole Volume every 100.00 (ft3)
— IHV - Integrated Hole Volume every 10.00 (ft3)
— ICV - Integrated Cement Volume every 100.00 (ft3)
— ICV - Integrated Cement Volume every 10.00 (ft3)
TIME_1900 - Time Marked every 60.00 (s)







TIME_1900 - Time Marked every 60.00 (s)



ICV - Integrated Cement Volume every 10.00 (ft3)

—|ICV - Integrated Cement Volume every 100.00 (ft3)

—|IHV - Integrated Hole Volume every 10.00 (ft3)

—|IHV - Integrated Hole Volume every 100.00 (ft3)

Description: HRLT BASIC LOG Format: Log (Caliper 2 inch General) Index Scale: 2 in per 100 ft Index Unit: ft Index Type: Measured Depth
Creation Date: 12-Dec-2016 09:56:26

Company: DCP Midstream LP

Schlumberger

Well: ZIA AGI D2

Field: AGI Devonian Exploration

County: Lea

State: New Mexico

Borehole Profile Log

4 Arm Caliper

PPC